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SOLDERING STATION



General purpose solder station for the hobbyist. Adjustable from 5 to 50 Watt (800° F max) heat output for repairing PC boards to soldering transformer terminals. Station provides on-off switch, knob to control wattage, built-in stand, tip cleaning sponge & 1/32" point tip. 115 VAC line.

Base L: 5-5/8" X W: 4-9/16" X T: 3-5/8" WT: 1.8

STOCK #	DESC.	1EA	10+EA
15860-TL	Solder Station	\$14.95	\$13.95



TEMPERATURE CONTROLLED SOLDER STATION



ZD Electronic Tools ZD-929C Temperature controlled soldering station with LED display. Heat sensor located near the tip for fast response and +/-10° "F" control. Rated at 48Watts, 24VAC handle. Temperature range: 320° "F" to 800° "F". Isolated tip, fused line. 117 VAC. Extra tips are available for general replacement or special uses.

Base L: 6-3/4" X W: 4-3/4" X T: 3-9/16" WT: 4.8

STOCK #	DESC.	1EA	5+EA
15845-TL	LED Solder Station	\$46.95	\$39.95

18A@240V RELAY

MFG: CRYDOM
P/N: EZ240D18
CONTROL: 3-15VDC
OUTPUT RATING: 18Amp @ 240VAC
ACTION: SPST-NO AC Only
Opto-Isolated, "0" voltage turn-on, internal snubber and 600V blocking. UL/CSA/CE listed.

L: 2-7/8" W: 1-1/2" H: 1" WT: .11

STOCK #	DESC.	1EA	12+
16596-RL	Crydom 18A SSR	\$8.95	\$8.50

DUAL RANGE LED METER



3-1/2 Digit, 200.0mV/20V DC input. Compact, LED DPM with black plastic face. .56" character height, adj. decimal point, auto polarity, >1Mohm input imp. 2 readings/sec., .2% accuracy. Snap-in panel mounting. Header connector for input/output. (Includes mating connector with leads.) DIP Switch for Decimal point, Differential input, and 100X input (Switch "ON" for 20V input) selection.

5 VDC powered. Meter power & Input can share a common input/Power, EXCEPT in "Differential" mode. W: 72mm H: 36mm D: 27mm WT: .13

STOCK #	DESC.	1EA
16565-ME	Mini 5VLED Panel Meter	\$9.95

5 FT USB CABLE

3COM P/N 1004360.1USB 1.1 cable with a Type A male to a Type B Male on the other. White jacket with molded strain relief on connectors.

STOCK #	DESC.	1EA
17973-CB	5ft. White USB Cable	\$0.59

24VDC SUPPLIES

MFG: POTRANS
Input: 100-250VAC 50/60Hz
Output: See Below
Specifications/Features:
Enclosed regulated switching supply. Over Voltage & Current protected. LED output indicator. Terminal strip In/Out. UL/usa/canada/TUV/CE listed.

100W: L: 7-7/8" W: 3-3/4" H: 1-1/2" WT: 1.4
150W: L: 7-7/8" W: 4-3/8" H: 2" WT: 1.9
200W: L: 9" W: 4-1/2" H: 2" WT: 2.1

STOCK #	DESC.	1EA
16853-PS	24V/4.2A 100W Supply	\$17.95
16854-PS	24V/6.5A 150W Supply	\$14.95
16855-PS	24V/8.3A 200W Supply	\$19.95

12VDC SUPPLY

MFG: MEANWELL
P/N: S-100F-12
Input: 110/220 VAC (Switch select) 50/60Hz
Output: 12VDC @ 8.5A
Specifications/Features:
Enclosed regulated switching supply. Over Voltage & Current protected. 125mV max Ripple & Noise. LED output indicator. Terminal strip In/Out. UL/usa/canada/TUV/CE listed.

L: 7.83" W: 3.85" H: 1.5" WT: 1.5

STOCK #	DESC.	1EA
17824-PS	12V@ 8.5A Meanwell Supply	\$34.95

0-18VDC @ 3A BENCH SUPPLY

MFG: MASTECH
P/N: HY1803D
Input: 110 VAC 60Hz
Output: 0-18VDC @ 0-3A
Constant Voltage or Current
Specifications/Features: Enclosed bench supply with dual LCD displays for output Volts & Amps. .02% Line / .01% Load regulation, <1mV RMS ripple. Front binding posts. CE listed.

L: 8-7/8" W: 3-5/8" H: 6-1/4" WT: 6.2

STOCK #	DESC.	1EA	5+EA
14600-PS	0-18V/3A Adj. Supply	\$59.95	\$52.95

3-1/8" 12VDC FAN

MFG: JAPAN SERVO
P/N: DC PIXIE25 (PUDC12Z4-042)
Voltage: 12 VDC
Current: 160mA
CFM: 42
Plastic blades & housing. 37db noise. Ball bearing. UL/CSA/TUV listed. 14" leads.

STOCK #	DESC.	1EA	12EA
15841-FN	12VDC 3-1/8" Fan	\$3.95	\$3.49

3-5/8" 12VDC FAN

MFG: DELTA
P/N: FFB0912VHE-R00
VOLTAGE: 12VDC
CURRENT: .75A
CFM: 85
Plastic blades & housing. 47.5dB noise. Ball bearing. 11" leads. Locked Rotor (Stall Sensor) output: Open collector transistor, 5-28VDC @ 5mA Max. UL/CSA/VDE/CE listed.

STOCK #	DESC.	1EA	40EA
18088-FN	12VDC Delta 3-5/8" Fan	\$3.95	\$3.49

WIRELESS INSPECTION CAMERA



Aardvark 2.4GHz wireless borescope with 3ft. flexible, weather resistant (IP-67) Color camera probe and a 3-1/2in. Recordable LCD color monitor. The Aardvark is ideal for inspecting confined spaces such as AC Vents, sink drains, motor housings, air handlers, sub floor areas, walls and much more. Min. hole/pipe dia. 17mm (.67"). Wireless monitor can be removed from probe unit (up to 30ft. depending on conditions). Still pictures or video can be recorded on an included 2Gb Micro SD card (16Gb Max) and has outputs for connecting a larger monitor, recorder & has a USB port connecting to your computer. Includes: Padded Plastic case, AC charger/adaptor, 2GB SD Card, video & USB cable, 3 pcs. Mirror/Hook/Magnet clip-on accessories.

Additional Accessories available See: MPJA.COM

STOCK #	DESC.	1EA
18120-TE	Wireless Borescope	\$249.00
18121-TE	3ft. Extension for Borescope	\$24.95

0-120VDC/1A BENCH SUPPLY

MFG: MPJA Inc.
Input: 110 VAC 60Hz
Output: 0-120VDC @ 0-1A
Specifications/Features:
Constant Voltage or Current Enclosed bench supply with single backlit LCD meter that displays Volts & Amps. 10 turn Voltage control, Push Button Current control (30ma resolution). <.01% Line/Load regulation (CV) .05% line/load (CC), <1mV /-2mA RMS ripple. Front panel output Banana Jacks & Terminal strips. Rubber feet, top carry strap

STOCK #	DESC.	1EA	5+EA
9312-PS	0-120V/1A Supply	\$97.00	\$93.00

60MHZ SCOPE PROBES

Quality oscilloscope probes with a BNC connector to match to most equipment. Max Input: 600V AC P/P + DC. Specifications:
Bandwidth: 1X = >15MHz +3db, 10X=>60MHz +3db:
Capacitance 1X = 46pF, 10X = 15pF, (+ scope input);
Impedance: 1X= 1M ohm; 10X= 10M ohm. With ground lead & retractable hook tip, IC tip & BNC adapter ring. For field service, schools or shop.

STOCK #	DESC.	1EA
8630-TE	60MHz Scope Probe	\$9.95

12V @ 3.33A SUPPLY

MFG: HIPRO
P/N: HP-02040D43
Input: 100-240 VAC 50/60Hz
Output: 12VDC @ 3.33A
Specifications/Features:
Desktop switching supply with overvoltage & current limit protection. 1% line, 5% load reg. IEC input AC connector, 6ft output cord with 5.5/2.5mm coaxial plug Center +. LED power indicator. UL/canada/usa/TUV/CE listed. MATING POWER CORD: Order Stock # 7378 CB

STOCK #	DESC.	1EA	10+EA
16918-PS	12V/3.33A Desktop P/S	\$8.95	\$8.50



This Catalog is just a SAMPLING of what our WEBSITE has to Offer!

- 1000's of additional products, visit us at: www.mpja.com
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- Searchable Database of all our Products
- All Products Organized by Categories
- View all Quantity Discount Pricing
- Access to Datasheets (where available)

0-18VDC @ 3A BENCH SUPPLY

MFG: MASTECH
P/N: HY1803D

Input: 110 VAC 60Hz

Output: 0-18VDC @ 0-3A

Constant Voltage or Current

Specifications/Features: Enclosed bench supply with dual LCD displays for output Volts & Amps. .02% Line / .01% Load regulation, <1mV RMS ripple. Front binding posts. CE listed.

L: 8-7/8" W: 3-5/8" H: 6-1/4" WT: 6.2

STOCK #	DESC.	1EA	5+EA
14600-PS	0-18V/3A Adj. Supply	\$59.95	\$52.95



0-30VDC @ 3A BENCH SUPPLY

MFG: MASTECH
P/N: HY3003

Input: 110 VAC 60Hz

Output: 0-30VDC @ 0-3A

Constant Voltage or Current

Specifications/Features: Enclosed bench supply with dual LED displays for output Volts & Amps. .02% Line / .01% Load regulation, <1mV RMS ripple. Front binding posts. CE listed.

L: 11-1/2" W: 5-1/4" H: 6-1/4" WT: 11.5

STOCK #	DESC.	1EA	5+EA
14601-PS	0-30V/3A Adj. Supply	\$89.00	\$85.00



0-50VDC @ 3A BENCH SUPPLY

MFG: MASTECH
P/N: HY5003

Input: 110 VAC 60Hz

Output: 0-50VDC @ 0-3A

Constant Voltage or Current

Specifications/Features: Enclosed bench supply with dual LED displays for output Volts & Amps. .02% Line / .01% +15mV Load regulation, <1mV RMS ripple. Front binding posts. CE listed.

L: 11-1/2" W: 5-1/4" H: 6-1/4" WT: 13.1

STOCK #	DESC.	1EA	5+EA
14602-PS	0-50V/3A Adj. Supply	\$99.00	\$95.00



0-30VDC/5A BENCH SUPPLY

MFG: MASTECH
P/N: HY3005E

Input: 110 VAC 60Hz

Output: 0-30VDC @ 0-5A

Constant Voltage or Current

Specifications/Features: Enclosed bench supply with dual LED displays for output Volts & Amps. .02% Line / .01% +15mV Load regulation, <1mV RMS ripple. Front binding posts. CE listed.

L: 11-1/2" W: 5-1/4" H: 6-1/4" WT: 5.7

STOCK #	DESC.	1EA	5+EA
14603-PS	0-30V/5A Bench Supply	\$110.00	\$95.00



DUAL 0-30VDC/3A & 5VDC/3A BENCH SUPPLY

MFG: MPJA Inc.

Input: 110 VAC 60Hz

Outputs: #1: 0-30VDC @ 0-3A

#2: 0-30VDC @ 0-3A #3: 5VDC @ 3A fixed

Specifications/Features: Dual Constant Voltage or Current supply with dual backlit LCD meters that displays Volts & Amps. Selectable Series or Parallel operation of Adj. supplies (0-60V/3A or 0-30V/6A). 10 turn Voltage control, Push button Current control (30ma resolution). <.01% Line / Load regulation (CV). .05% line/load (CC). <1mV / <2mA RMS ripple. Front panel output Banana Jacks & Terminal strips.

W: 10-3/4" D: 13" H: 7-1/2" WT: 28.7

STOCK #	DESC.	1EA
9333-PS	Dual 0-30V & 5V Bench Supply	\$179.00



DUAL 0-30VDC/3A & 5VDC/3A BENCH SUPPLY

MFG: MASTECH

P/N: HY3003F-3

Input: 110 VAC 60Hz

Outputs: #1: 0-30VDC @ 0-3A

#2: 0-30VDC @ 0-3A #3: 5VDC @ 3A fixed

Specifications/Features: Enclosed bench supply with 4 LED displays for output Volts & Amps. .02% Line / .01% +15mV Load regulation, <1mV RMS ripple. Front binding posts. CE listed.

W: 10-1/4" D: 14-1/2" H: 6-1/4" WT: 20

STOCK #	DESC.	1EA
14605-PS	Dual 0-30V & 5V Bench Supply	\$179.00



0-30VDC/10A BENCH SUPPLY

MFG: MASTECH

P/N: HY3010E

Input: 110 VAC 60Hz

Output: 0-30VDC @ 0-10A Constant Voltage or Current

Specifications/Features: Enclosed bench supply with dual LED displays for output Volts & Amps. .02% Line / .01% +15mV Load regulation, <1mV RMS ripple. Front binding posts. CE listed.

W: 10-1/4" D: 13" H: 6-1/4" WT: 13.1

STOCK #	DESC.	1EA	5+EA
14604-PS	0-30V/10A Supply	\$169.00	\$149.00



0-30VDC/20A BENCH SUPPLY

MFG: MASTECH

P/N: HY3020E

Input: 110 VAC 60Hz

Output: 0-30VDC @ 0-20A Constant Voltage or Current

Specifications/Features: Enclosed bench supply with LED meters for Volts & Amps. .01% Line / Load regulation (CV). .2% line/load (CC), <1mV RMS ripple. Front binding posts. CE listed.

W: 10-1/4" D: 14-1/2" H: 6-1/4" WT: 20

STOCK #	DESC.	1EA	5+EA
15950-PS	0-30V/20A Supply	\$269.00	\$239.00



PROGRAMMABLE 0-36VDC @ 3A BENCH SUPPLY

INPUT: 110 VAC 60Hz

OUTPUT: 0-36VDC @ 0-3A

Resolution V: 1mV @ <3.999V 10mV @ >4.000V

I: <=1mA

Ripple: <= 2mV RMS

Regulation: <= .02% +10mv Line/Load

Specifications/Features: Programmable supply with back-lit LCD display, numeric keypad, rotary digital control. Operates as Constant Voltage, Current or Power. Up to 10 settings can be stored in memory. Easy set up using keypad. OPTIONAL Control packages allows PC control via RS232 or USB interface.

W: 8-1/2" H: 3-3/4" D: 11" WT: 14.9



STOCK #	DESC.	1EA
15316-PS	Programmable Supply	\$199.00
15317-PS	RS232 Computer Interface	\$24.95
15318-PS	USB Computer Interface	\$24.95
15319-PS	RS485 Computer Interface	\$24.95

0-120VDC/1A BENCH SUPPLY

MFG: MPJA Inc.

Input: 110 VAC 60Hz

Output: 0-120VDC @ 0-1A

Specifications/Features:

Constant Voltage or Current Enclosed bench supply with single backlit LCD meter that displays Volts & Amps. 10 turn Voltage control, Push Button Current control (30ma resolution). <.01% Line/ Load regulation (CV). .05% line/load (CC), <1mV / <2mA RMS ripple. Front panel output Banana Jacks & Terminal strips. Rubber feet, top carry strap

W: 5-1/4" D: 11-1/4" H: 7-1/2" WT: 14.3

STOCK #	DESC.	1EA	5+EA
9312-PS	0-120V/1A Supply	\$97.00	\$93.00



0-120VDC/3A BENCH SUPPLY

MFG: MPJA Inc.

Input: 110 VAC 60Hz

Output: 0-120VDC @ 0-3A

Specifications/Features: Regulated Bench supply with Adjustable Current limit. LED meter displays Volts & Amps. Push button switch connects supply to load. Multi turn Voltage control for precise settings. 5mV/RMS ripple. Front panel output Banana Jacks & Terminal strip for remote Voltmeter Sensing at the load.

W: 10-3/4" D: 15" H: 6" Ship WT: 26.5

STOCK #	DESC.	1EA
9313-PS	0-120V 3A Bench Supply	\$265.95



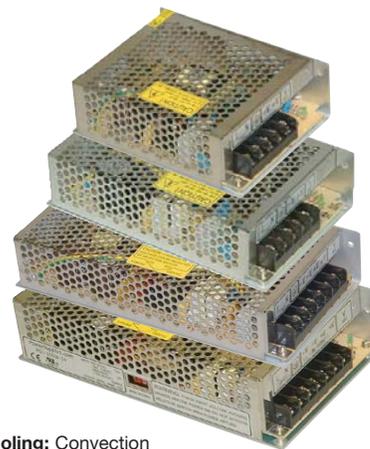
POWER SUPPLY 1

YOUR NO. 1 SOURCE FOR POWER SUPPLIES

High reliability line of power supplies designed to operate over the wide range of AC power found world wide.

- Overvoltage, Overcurrent, Short Circuit Protected
- 100% Full Load Burn-in Tested--Full rated to 50°C

No minimum load--UL/CANADA/USA/CE listed.



GENERAL SPECIFICATIONS

RoHS Compliant

Line Regulation (Full Load): < +/- 0.5%
 Load Regulation: .05% (0-100%)
 Inrush Current: 20A/115V, 40A/230V
 Input Leakage Current: <0.7mA @ 230VAC
 Output Adjustment Range: +/- 10%
 Overload Protection: 40/60W: 110-150%
 100/150W: 110-130%
 Over Voltage Protection: 115-150%
 Rise Time: 50mS Full Load (Typical)
 Hold Up Time: 20mS Full Load (typical)

Withstand Voltage (1 Min.):
 Input to Output: 3.0KV AC
 Input to Frame/Ground: 1.5KV AC
 Output to Frame/Ground: 0.5KV AV
 MTBF: 100,000 Hours
 Operating Temp. & Humidity: -10° C to +50° C
 20%-93% Non Condensing
 Storage Temp. & Humidity: -20° C to +85° C
 20%-95% Non Condensing

Cooling: Convection
 Approvals/Standards:
 UL Ref. No.: E258719
 Safety: GB4943, UL60950, EN60950
 EMC: GB9254, EN55022 class B, EN55024
 EN61000-3-2/3
 EN61000-4-2/3/4/5/6/8/11

40W SUPPLIES



Input: 85-264 VAC 47-63Hz Universal
 L: 129mm W: 98mm H: 40mm
 L: 5.08" W: 3.86" H: 1.57"

Wt: .5kg
 Wt: 1.1lb

STOCK #	OUTPUT	PS1 PART #	RIP/NOISE	EFF	CASE
16000-PS	5V/8A	PS1-40W-SL5	80mV	72%	A
16001-PS	12V/3.5A	PS1-40W-SL12	100mV	76%	A
16002-PS	15V/2.8A	PS1-40W-SL15	100mV	76%	A
16003-PS	24V/1.8A	PS1-40W-SL24	100mV	78%	A
16004-PS	48V/0.8A	PS1-40W-SL48	150mV	80%	A

DISCOUNT PRICING

Qty: 1-9	Qty: 10-99	Qty: 100+
\$22.50	\$18.80	\$15.89

60W SUPPLIES



Input: 85-264 VAC 47-63Hz Universal
 L: 160mm W: 98mm H: 39mm
 L: 6.3" W: 3.86" H: 1.54"

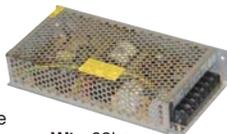
Wt: .55kg
 Wt: 1.2lb

STOCK #	OUTPUT	PS1 PART #	RIP/NOISE	EFF	CASE
16005-PS	5V/12A	PS1-60W-SL5	80mV	73%	B
16006-PS	12V/5A	PS1-60W-SL12	100mV	76%	B
16007-PS	15V/4A	PS1-60W-SL15	120mV	77%	B
16008-PS	24V/2.5A	PS1-60W-SL24	150mV	80%	B
16009-PS	48V/1.3A	PS1-60W-SL48	150mV	81%	B

DISCOUNT PRICING

Qty: 1-9	Qty: 10-99	Qty: 100+
\$26.88	\$21.92	\$18.25

100W SUPPLIES



Input: 85-132/170-264 VAC 47-63Hz Selectable
 L: 199mm W: 98mm H: 39mm
 L: 7.83" W: 3.86" H: 1.54"

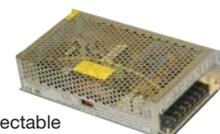
Wt: .68kg
 Wt: 1.5lb

STOCK #	OUTPUT	PS1 PART #	RIP/NOISE	EFF	CASE
16010-PS	3.3V/20A	PS1-100W-SF3.3	100mV	77%	C
16011-PS	5V/20A	PS1-100W-SF5	100mV	78%	C
16012-PS	7.5V/13.5A	PS1-100W-SF7.5	100mV	82%	C
16013-PS	12V/8.5A	PS1-100W-SF12	100mV	82%	C
16014-PS	15V/6.7A	PS1-100W-SF15	100mV	82%	C
16015-PS	24V/4.5A	PS1-100W-SF24	100mV	83%	C
16016-PS	48V/2.2A	PS1-100W-SF48	150mV	84%	C

DISCOUNT PRICING

Qty: 1-9	Qty: 10-99	Qty: 100+
\$32.80	\$26.49	\$22.50

150W SUPPLIES



Input: 85-132/170-264 VAC 47-63Hz Switch Selectable
 L: 199mm W: 110mm H: 50mm
 L: 7.83" W: 4.33" H: 1.97"

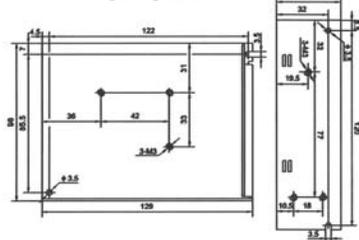
Wt: .73
 Wt: 1.6lb

STOCK #	OUTPUT	PS1 PART #	RIP/NOISE	EFF	CASE
16017-PS	5V/30A	PS1-150W-05	120mV	78%	D
16018-PS	7.5V/20A	PS1-150W-075	120mV	80%	D
16019-PS	9V/17A	PS1-150W-09	120mV	80%	D
16020-PS	12V/12.5A	PS1-150W-12	120mV	82%	D
16032-PS	24V/6.5A	PS1-150W-24	150mV	85%	D
16033-PS	28V/5.5A	PS1-150W-28	150mV	85%	D
16034-PS	36V/4.2A	PS1-150W-36	200mV	86%	D

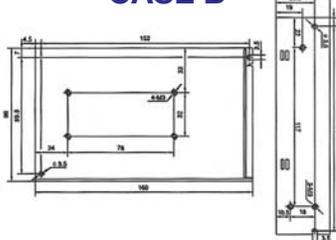
DISCOUNT PRICING

Qty: 1-9	Qty: 10-99	Qty: 100+
\$40.75	\$33.70	\$27.90

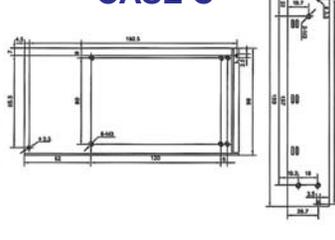
CASE A



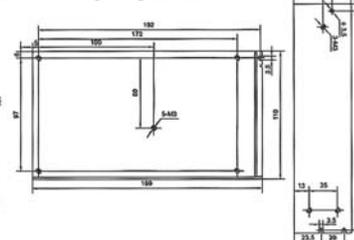
CASE B



CASE C



CASE D





INTERNATIONAL POWER OPEN FRAME LINEAR SUPPLIES

Specifications/Features: High reliability line of power supplies designed to operate over the wide range of AC power sources found world wide. +/-0.05% Regulation, Full rated to 50°C, Foldback Current Limit, no minimum load, Remote Sense, UL/CSA/TUV/CE listed. RoHS level 5

5VDC OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz

Output: See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
6601-PS	IHA5-1.2/OVP	5V/1.2A	A	\$35.15	\$33.30
6602-PS	IHA5-1.5/OVP	5V/1.5A	B	\$35.15	\$33.30
6603-PS	IHB5-3/OVP	5V/3.0A	B	\$35.15	\$33.30
6604-PS	IHC5-6/OVP	5V/6.0A	C	\$58.43	\$55.35
6605-PS	IHN5-9/OVP	5V/9.0A	N	\$79.80	\$75.60
6606-PS	IHD5-12/OVP	5V/12.0A	D	\$90.73	\$85.95
8521-PS	IHE5-18/OVP	5V/18.0A	E	\$128.01	\$121.28
8522-PS	IHF5-25/OVP	5V/25.0A	F	\$193.28	\$183.11

15VDC OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz

Output: See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
6612-PS	IHA15-0.5	15V/0.5A	A	\$35.15	\$33.30
6613-PS	IHA15-0.9	15V/0.9A	B	\$35.15	\$33.30
6614-PS	IHB15-1.5	15V/1.5A	B	\$35.15	\$33.30
6615-PS	IHC15-3.0	15V/3.0A	C	\$53.68	\$50.85
6616-PS	IHN15-4.5	15V/4.5A	N	\$75.05	\$71.10
6617-PS	IHD15-6	15V/6.0A	D	\$85.03	\$80.55
8524-PS	IHE15-9	15V/9.0A	E	\$118.51	\$112.28
6618-PS	IHF15-15	15V/15.0A	F	\$193.28	\$183.11

28VDC OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz

Output: See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
6626-PS	IHB28-1	28V/1.0A	B	\$35.15	\$33.30
6627-PS	IHC28-2	28V/2.0A	C	\$53.68	\$50.85
6628-PS	IHN28-3	28V/3.0A	N	\$75.05	\$71.10
6629-PS	IHD28-4	28V/4.0A	D	\$85.03	\$80.55
8525-PS	IHE28-6	28V/6.0A	E	\$118.51	\$112.28

HIGH VOLTAGE OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz

Output: See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
8528-PS	IHB155-0.12	155-170V/.12A	B	\$43.84	\$41.54
8529-PS	IHB200-0.12	175-210V/.12A	B	\$43.84	\$41.54
8530-PS	IHB250-0.10	215-265V/.10A	B	\$43.84	\$41.54

CASE SIZE AND WEIGHTS



CASE A

CASE B

CASE C

CASE D



CASE E

CASE F

CASE N

CASE	LEN.	WIDTH	THICK	WEIGHT
A	3.75"	3.00"	2.20"	1
B	4.87"	4.00"	2.10"	2
C	5.62"	4.87"	2.95"	4
N	7.00"	4.87"	3.35"	6
D	9.00"	4.87"	3.20"	7.5
E	14.00"	4.87"	3.40"	10
F	16.75"	4.88"	6.30"	19

12VDC OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz.

Output: See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
6607-PS	IHB12-1.7	12V/1.7A	B	\$35.15	\$33.30
6608-PS	IHC12-3.4	12V/3.4A	C	\$53.68	\$50.85
6609-PS	IHN12-5.1	12V/5.1A	N	\$75.05	\$71.10
6610-PS	IHD12-6.8	12V/6.8A	D	\$85.03	\$80.55
8523-PS	IHE12-10.2	12V/10.2A	E	\$118.51	\$112.28
6611-PS	IHF12-15	12V/15.0A	F	\$193.28	\$183.11

24VDC OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz

Output: See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
6619-PS	IHA24-0.5	24V/0.5A	B	\$35.15	\$33.30
12784-PS	IHB24-1.2	24V/1.2A	B	\$35.15	\$33.30
6621-PS	IHC24-2.4	24V/2.4A	C	\$53.68	\$50.85
6622-PS	IHN24-3.6	24V/3.6A	N	\$75.05	\$71.10
6623-PS	IHD24-4.8	24V/4.8A	D	\$85.03	\$80.55
6624-PS	IHE24-7.2	24V/7.2A	E	\$118.51	\$112.28
7377-PS	IHF24-12	24V/12.0A	F	\$193.28	\$183.11

48VDC OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz

Output: See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
6630-PS	IHB48-0.5	48V/0.5A	B	\$42.75	\$40.50
6631-PS	IHC48-1	48V/1.0A	C	\$58.43	\$55.35
6632-PS	IHD48-3	48V/3.0A	D	\$90.73	\$85.95
8526-PS	IHE48-4	48V/4.0A	E	\$128.01	\$121.28
8527-PS	IHF48-8	48V/8.0A	F	\$269.80	\$255.60

500 WATT POWER SOURCES

Unregulated power sources for use where full regulated power is not required, such as solenoids, motors, DC/DC converters & lamps. Floating outputs, 3% output ripple at full load (4% on 12V model), Full rated to 55°C, no minimum load. UL/CSA/TUV listed
 Input: 108/120/132/216/240/264 VAC 50/60Hz. Output: See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
8531-PS	IP500U12	14.7V/0A 13V/15A 12V/30A	U	\$204.73	\$193.95
6645-PS	IP500U24	29.2/0A 26.8/10A 24.6V/20.0A	U	\$204.73	\$193.95
6642-PS	IP500U36	42.8/0A 38.2/6.6A 36.1V/13.3A	U	\$204.73	\$193.95
6646-PS	IP500U48	56.6/0A 52.8/5A 48.8V/10.0A	U	\$204.73	\$193.95
6643-PS	IP500U65	72.5/0A 68.8/3.8A 65/7.7A	U	\$204.73	\$193.95
6644-PS	IP500U75	85.5/0A 78.2/3.3A 74.8V/6.6A	U	\$204.73	\$193.95

MULTI. OUTPUT SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz

Output: See below.

STOCK #	IP PART #	OUTPUT	CASE	1-9EA	10+EA
6633-PS	IHAA15-0.8	+&-12V/0.8A	AA	\$46.22	\$43.79
6634-PS	IHTAA16W	5V/2A,+12/4,-12/4	AA	\$58.71	\$55.62
6635-PS	IHBAA40W	5V/3A,+&-12V/1A	BAA	\$80.56	\$76.32



CASE AA

CASE BAA

CASE U

CASE	LEN.	WIDTH	THICK	WEIGHT
AA	6.50"	4.00"	2.07"	2
BAA	10.25"	4.00"	2.95"	5
U	9.0"	4.62"	5.62"	22



INTERNATIONAL POWER OPEN FRAME MULTIPLE OUTPUT LINEAR SUPPLIES

Input: 100/120/220/230-240 VAC 50/60Hz Output: See below.

STOCK #	MFG/MODEL #	OUTPUT #1	OUTPUT #2	OUTPUT #3.	CASE	WT.	1EA	10+EA
8532-PS	IHCC5-6/OVP	+5V @ 6.0A	-5V @ 6.0A	-	CC	7 lbs	\$103.41	\$97.97
8533-PS	IHD12-6.8-504	+5V @ 3.0A	12V @ 6A Isolated	-	D	7.5 lbs	\$129.11	\$122.31
6641-PS	IHCC512	+5V @ 6.0A	12-15V adj @ 2.5A Isolated	-	CC	7 lbs	\$98.66	\$93.47
6637-PS	IHAD12-0.4	+12V @ 0.4A	-12V @ 0.4A	-	B	2 lbs	\$39.38	\$37.31
6638-PS	IHAD15-0.4	+15V @ 0.4A	-15V @ 0.4A	-	B	2 lbs	\$39.38	\$37.31
8534-PS	IHBB24-1.2	+24V @ 1.2A	-24V @ 1.2A	-	BB	4 lbs	\$59.85	\$56.70
6639-PS	IHCC15-3.0	+12V @ 3.4A	-12V @ 3.4A	-	CC	7 lbs	\$93.91	\$88.97
	OR	+15V @ 3.0A	-15V @ 3A	-				
6636-PS	IHCAA-60W	+5V @ 6.0A	+12-15V @ 1A	-12-15V @ 1A	D	7.5 lbs	\$96.05	\$90.99
	OR		"	-5V @ 0.4A				
7380-PS	IHBCC512	+5V @ 3.0A	+12V @ 3.4A	-12V @ 3.4A	CC	7 lbs	\$124.26	\$117.72
	OR	"	+15V @ 3A	-15V @ 3A				
8535-PS	IHBCC524	+5V @ 3.0A	+18-20V @ 1.8A	-18-20V @ 1.8A	CC	7 lbs	\$124.26	\$117.72
	OR	"	+24V @ 2.4A	-24V @ 2.4A				
MULTIPLE OUTPUT LINEAR FOR HARD/FLOPPY DRIVES								
8536-PS	ICP162	+5V @ 3A	-5V @ .6A	+24V @ 5A (6Apk)	131	9 lbs	\$138.75	\$131.45

OVERVOLTAGE PROTECTORS

6647-PS	IOVP12	Adjustable overvoltage protector for ALL Case sizes Smaller than "D"	.2 lbs	\$10.40	\$9.86
6648-PS	IOVP24	Adjustable overvoltage protector for ALL "E", "F", & "G" Case Sizes	.4 lbs	\$18.00	\$17.06



CASE	LEN.	WIDTH	THICK	WEIGHT	CASE	LEN.	WIDTH	THICK	WEIGHT	CASE	LEN.	WIDTH	THICK	WEIGHT
CC	9.38"	4.87"	3.20"	7	131	11.00"	4.87"	3.20"	9	BB	7.00"	4.87"	2.05"	9

20A REGULATED 13.8 DC BENCHTOP SUPPLY

MFG: SAMLEX
 Input: 115 VAC 60Hz
 Outputs: 13.8VDC @20A
Specifications/Features:
 Short Circuit & Overload Protected. P/P ripple under 10mV. Metal Case, Power Cord, Line Fuse and Switch. For Cellular Phones, AutoAccessories, Test Equipment. Binding post for output.



W: 6-3/4" H: 4-1/2" D: 8-1/2" WT: 16.1

STOCK #	DESC.	1EA	3EA	10+EA
5386-PS	13.8V/20A	\$159.95	\$148.95	\$144.95

UL/CSA LISTED 10A REGULATED 13.8VDC BENCHTOP SUPPLY

MFG: SAMLEX
 Input: 110/120VAC 50-60Hz
 Output: 13.8VDC @ 10A
 Short Circuit & Overload Protected. With Metal Case, Power Cord, Line Fuse and Switch For Cellular Phones, Auto Accessories, Test Equipment. Binding post for output. UL/CSA listed



W: 9-1/2" H: 5" D: 9-3/4" WT: 15.3

STOCK #	DESC.	1EA	3EA	10+EA
5825-PS	13.8V/10A UL	\$99.95	\$89.95	\$79.95

0-40V @ 1.5A OR 0-20V @ 3A BENCH SUPPLY

MFG.: ELENCO
 P/N: XP-650
 Input: 120/240VAC
 Output: Selectable 0-20V @ 3A or 0-40V @ 1.5A DC Short Circuit & Overload Protected. Volt & Amp Meters. All outputs are Isolated and can be connected in series with other supplies. Line/Load Regulation is .1 with 5mV Ripple. Metal Case, Power Cord, Line Fuse, Switch, & Binding Posts.



W: 10" H: 3.55" D: 9.5" WT: 10

STOCK #	DESC.	1EA	3EA
5718-PS	0-20V/0-40V Supply	\$169.00	\$159.00

2.5-18VDC @ 2A BENCH SUPPLY WITH FIXED +5 & +/-12

MFG.: ELENCO
 P/N: XP581
 Input: 120VAC
 Outputs: #1: 2.5-18V @ 1.5A(2Max)
 #2: +5VDC @ 3A #3: +12VDC @ 1A #4: -12VDC @ 1A
 Foldback current limit. Volt & Amp Meters, .05V Line/load reg. on fixed outputs; .4V on variable. 5mV ripple. Metal Case, Power Cord, Switch, & Binding Posts.



W: 9.3" H: 3.5" D: 8.3" WT: 10

STOCK #	DESC.	1EA	3EA
8775-PS	2.6-18V Output Elenco	\$110.00	\$99.95

THOUSANDS
 more Items on www.mpja.com

REGULATED 13.8V DC SUPPLY

MFG: MPJA
 Input: 110 VAC 60Hz
 Outputs: 13.8V @ 6A 8A Surge
 Regulated, Fixed output bench supply, Metal Case, Power Cord, Line Fuse and Switch. For Cellular Phones, Auto Accessories, Test Equipment. Front Binding Posts. **Does not have short circuit protection.**



W: 6" H: 4-1/2" D: 11-1/4" WT: 5.6

STOCK #	DESC.	1EA	4EA
9323-PS	13.8V@6A Bench Supply	\$39.95	\$36.95

MULTI OUTPUT SUPPLY

P/N: 9902-PS
 Input: 90-250VAC 60Hz
 Outputs: 3,4.5, 6, 7.5,9,12VDC @ 2000mA Selectable
Specifications/Features: Enclosed, Benchtop regulated, switching supply. Switch selectable output. Front panel Power switch, Select switch & Binding posts. 6ft. 2 wire input power cord with 2 blade plug.
 L: 6-1/2" W: 3-7/8" H: 2-1/4" WT: 1.1



STOCK #	DESC.	1EA	5EA
9902-PS	Multi Output Supply	\$19.95	\$17.95

DIN RAIL POWER SUPPLIES



MFG: HENGFU
 P/N: HF150-SDR Series
 Input: 85-132VAC 50/60Hz
 Output: 150W See Below
Specifications/Features:
 Compact supply mounts on TS35/7.5 or /15 DIN rails
 0.5% line/load reg, 120/150mV Ripple/noise. Over Voltage/Current/Short circuit protected, LED Power out indicator. Built-in EMI Filter. CE listed

W: 4-1/4" H: 4-1/4" D: 3-3/8" WT: 1.6

STOCK #	DESC.	1EA
17895-PS	12V/12.5A DIN Supply	\$49.95
17896-PS	24V/6.5A DIN Supply	\$49.95
17897-PS	48V/3.1A DIN Supply	\$49.95

4A REGULATED 13.8V DC SUPPLY



MFG: SAMLEX
 P/N: SEC-6
 Input: 115 VAC 60Hz
 Outputs: 13.8V @4A
 Short Circuit & Overload Protected. 110/120VAC Input. With Metal Case, Power Cord, Line Fuse and Switch For Cellular Phones, Auto Accessories, Test Equipment. Binding post on back, Cigarette plug socket on front.

W: 5-1/4" H: 3-1/2" D: 8-1/2" WT: 5.6

STOCK #	DESC.	1EA	5EA	10+EA
16233-PS	13.8V/4A	\$39.95	\$38.95	\$37.95

1KVA LINE STABILIZER



P/N: ATVR-1000
 Input: 80-140/180-240VAC 50-60Hz
 Output: 110V & 220V AC1KVA+4%
Specifications/Features:
 Micro processor controlled, Benchtop autoregulator for AC line. Automatically compensates for input line voltage variations. Front panel analog meters & power switch, input voltage switch. 110 & 220 AC sockets, fuse, & cord on back. Ideal for testing 110 & 220 equipment. 6ft AC line cord input

W: 9-1/2" H: 7-1/4" W: 5-1/2" WT: 15.1

STOCK #	DESC.	1EA	5+EA
14834-PS	1KVA Stabilizer	\$62.95	\$56.95

AC LINE STABILIZER



P/N: AR-2000
 Input: 75-130/180-260VAC 50-60Hz
 Output: 110V & 220V AC 2000W
Specifications/Features:
 Benchtop auto regulator for AC line. Automatically senses input line voltage & switches windings to compensate. Front panel output Voltmeter, 110 & 220 AC sockets, Output fuse, & switch. Ideal for testing 110 & 220 equipment. 6ft AC line cord input.

W: 10" H: 5-1/2" D: 11-1/2" WT: 23.4

STOCK #	DESC.	1EA	5+EA
17271-PS	2KVA Line Regulator	\$85.95	\$79.95

300W POWER SUPPLIES



High reliability, Enclosed, Switching power supplies.
 •Overvoltage, Overcurrent, Short Circuit Protected
 •100% Full Load Burn-in Tested--Full rated to 50°C
 •No minimum load

Input: 90-130 VAC Input 50/60Hz
 Output: See below
 L: 9.5" W: 4.9" H: 2.6" WT: 3

STOCK #	DESC.	1EA	10EA
16487-PS	9V/33A Power Supply	\$97.00	\$88.50
16490-PS	36V/8.5A Power Supply	\$97.00	\$88.50

5VDC SUPPLIES



MFG: METAPO
 Input: 100-240VAC 50/60Hz
 Output: See Below
Specifications/Features:
 Enclosed regulated switching supply. Over Voltage & Current protected. LED output indicator. Terminal strip In/Out. UL/USA/canada/TUV/CE listed.

15W: L: 3.9" W: 3.82" H: 1.4" WT: .8
 25W: L: 3.9" W: 3.82" H: 1.4" WT: .8
 60W: L: 6.3" W: 3.74" H: 1.5" WT: 1.2

STOCK #	DESC.	1EA	40EA
17430-PS	5V/3A 15W Supply	\$10.95	\$8.95
17431-PS	5V/5A 25W Supply	\$12.95	\$11.95
17433-PS	5V/12A 60W Supply	\$16.95	\$14.95

24VDC SUPPLIES



MFG: POTRANS
 Input: 100-250VAC 50/60Hz
 Output: See Below
Specifications/Features:
 Enclosed regulated switching supply. Over Voltage & Current protected. LED output indicator. Terminal strip In/Out. UL/USA/canada/TUV/CE listed.

100W: L: 7-7/8" W: 3-3/4" H: 1-1/2" WT: 1.4
 150W: L: 7-7/8" W: 4-3/8" H: 2" WT: 1.9
 200W: L: 9" W: 4-1/2" H: 2" WT: 2.1

STOCK #	DESC.	1EA
16853-PS	24V/4.2A 100W Supply	\$17.95
16854-PS	24V/6.5A 150W Supply	\$14.95
16855-PS	24V/8.3A 200W Supply	\$19.95

480W POWER SUPPLIES



POWER FACTOR CORRECTED
 High reliability line of ISO 9001 Enclosed, Switching power supplies. CE listed.

- PF correction >.95
 - Overvoltage, Overcurrent, Over Temp. Protected
 - Remote Control
 - 100% Full Load Burn-in Tested--Full rated to 35°C
 - Internal Fan, Automatic operation
- Input: 90-264 VAC Input 47-63Hz
 Output: See below
 L: 7-1/4" W: 4-3/4" H: 3-11/16" WT: 4.1

STOCK #	DESC.	1EA
16752-PS	13.5V/36A 480W Supply	\$120.00
16754-PS	28V/17.5A 480W Supply	\$120.00

DUAL OUTPUT SUPPLIES



MFG: HENGFU
 P/N: HF100W-DF series (See Below)
 Input: 85-132/170-264VAC 50/60Hz. (Switch Select)
 Output: See below
Specifications/Features: 100W, Enclosed regulated switching supply with Floating outputs. Line Reg: 0.5% Load Reg: 0.5% on 5V; 3% on #2. Over Voltage & Current protected. LED output indicator. Terminal strip In/Out. CE listed.

L: 7-7/8" W: 3.7/8" H: 1-5/8" WT: 1.6

STOCK #	SERIES	OUTPUT #1	#2	1EA
18111-PS	DF-A	5V/10A	12V/4A	\$39.95
18112-PS	DF-B	5V/15A	15V/2A	\$39.95
18113-PS	DF-C	5V/15A	24V/1A	\$39.95

INDUSTRIAL SUPPLIES



MFG: MEANWELL
 Input: 100-240VAC 50/60Hz
 Output: see chart
Specifications/Features:
 Enclosed regulated switching supply. Over Voltage & Current protected. LED output indicator. Terminal strip In/Out. UL/CE/TUV listed.

60W SUPPLIES

L: 6.26" W: 3.82" H: 1.5" WT: 1.2

STOCK #	OUTPUT	M/W PART #	NOISE	1EA
17820-PS	5V/12A	S-60-5	120mV	\$29.95



MFG: MEANWELL
 Input: 120/240VAC 50/60Hz (Switch Select)
 Output: see chart
Specifications/Features:
 Enclosed regulated switching supply. Over Voltage & Current protected. LED output indicator. Terminal strip In/Out. UL/US/CANADA/CSA/US/CANADA/CE/TUV listed

100W SUPPLIES

L: 7.83" W: 3.85" H: 1.5" WT: 1.5

STOCK #	OUTPUT	M/W PART #	NOISE	1EA
17823-PS	5V/20A	S-100F-5	100mV	\$34.95
17824-PS	12V/8.5A	S-100F-12	125mV	\$34.95
17825-PS	24V/4.5A	S-100F-24	150mV	\$34.95
17826-PS	48V/2.2A	S-100F-48	150mV	\$34.95



150W SUPPLIES

L: 7.83" W: 4.33" H: 1.97" WT: 1.8

STOCK #	OUTPUT	M/W PART #	NOISE	1EA
17827-PS	5V/30A	S-150-5	150mV	\$44.95
17828-PS	12V/12.5A	S-150-12	180mV	\$44.95
17829-PS	24V/6.5A	S-150-24	240mV	\$44.95
17830-PS	48V/3.2A	S-150-48	240mV	\$44.95

POWER SUPPLIES/CHARGER



MFG: HENGFU
 P/N: HF20W-SB series (See Below)
 Input: 85-264VAC 50/60Hz.
 Output: See below
Specifications/Features: 20W, Enclosed regulated switching supply with Charger for Lead Acid or Lithium battery. Auto switch to battery upon AC fail (UPS). Over Voltage, Current & Low Battery protected. LED output indicator. Terminal strip In/Out. CE listed.

L: 4-3/8" W: 3-1/8" H: 1-1/2" WT: .6

STOCK #	SERIES	OUTPUT #1	CHARGER	1EA
18116-PS	SB-12	12V/1.5A	13.8V/0.5A	\$19.95
18117-PS	SB-24	24V/0.7A	27.1V/0.2A	\$19.95

24V @ 21A SUPPLY



MFG: HENGFU
 P/N: HF500W-S-24
 Input: 90-130 VAC 50/60Hz
 Output : 24VDC @ 21A
Specifications/Features:
 High reliability Enclosed, Switching power supply.
 •Overvoltage, Overcurrent, Short Circuit Protected
 •100% Full Load Burn-in Tested--Full rated to 50°C
 No minimum load.

L: 11" W: 6.5" H: 3.5" WT: 6.3

STOCK #	DESC.	1EA	10EA
16503-PS	24V/21A 500W Supply	\$195.00	\$159.00

+5V/3A POWER SUPPLY



MFG: POWER-1
P/N: HBB5-3/0VP-A
Input: 120VAC 47-63Hz
Outputs: #1 +5V @3A #2: -5V @3A
Specifications/Features:
 Open frame linear supply, pre-wired for 120VAC input with a 12in cable. 12in. Output harness soldered to output terminals. UL/CSA/TUV/CE listed
L: 7" **W:** 4-3/4" **T:** 3" **WT:** 6

STOCK #	DESC.	1EA	10+EA
16727-PS	+5 & -5V Power Supply	\$19.95	\$17.95

24V @ 4.5A SUPPLY



MFG: FUJII/XEROX
P/N: 105K91480K4
Input: 100/115 AC 50/60Hz
Output: 24V @ 4.5A
Specifications/Features:
 Enclosed switching supply. Over Voltage & Current protected. Header connectors for input/Output.
L: 13-3/8" **W:** 4" **H:** 2-1/2" **Ship WT:** 3

STOCK #	DESC.	1EA
17417-PS	24V @ 4.5A Supply	\$15.95

12VDC @ 9A POWER SUPPLY



MFG: INTER. POWER SOURCES
P/N: PU110-12A
Input: 100-240VAC 47-63 Hz
Output: 12VDC @ 9A
Specifications/Features: Requires 25CFM air flow for full rated output of 110W. 80Watts free air. Open frame switching supply. .5% line/ 2% load regulation. Header pins In/Out. UL/CSA/TUV/CE listed.

L:	W:	T:	WT:
7"	4-1/4"	2"	1.4

STOCK #	DESC.	1EA
17095-PS	12V @ 9A IPS Supply	\$19.95

28VDC/2A SUPPLY



MFG: CONDOR
P/N: GPM55-28
Input: 100-240VAC 47-63Hz
Output: 28VDC @ 2A
Specifications/Features:
 Open switching supply. Over voltage/current protected, 2% Line/Load Regulation, 280mV Noise. Header pins In/Out. UL/CSA/VDE Listed.
L: 6-1/4" **W:** 4" **H:** 1-3/4" **WT:** 1.3

STOCK #	DESC.	1EA	10EA
17186-PS	28V @ 2A Condor	\$14.95	\$12.95

+5V/4A, +12V/1A POWER SUPPLY



MFG: FORTRON/SOURCE
P/N: SLD20W
Input: 120VAC 47-63Hz
Outputs: #1: +5V @ 4A #2: +12V @ .1A
Specifications/Features:
 Open frame linear supply. .250 quick connect terminals for AC input, Header pins for output.
L: 4-7/8" **W:** 4" **T:** 2-1/2" **WT:** 3

STOCK #	DESC.	1EA	20+EA
15347-PS	+5V & +12V Supply	\$10.95	\$9.95

5V/4A SUPPLY



MFG: AULT
MODEL: SUBVM1020B05
Input: 120VAC 60Hz
Output: 5VDC @ 20W (4A)
Specifications/Features:
 Regulated board supply. Subassembly for desktop supply. No mounting frame or input/output terminals. Wires or terminals must be soldered to board.
L: 3-9/16" **W:** 2-5/16" **T:** 1-3/8" **WT:** .5

STOCK #	DESC.	1EA
17629-PS	5VDC/20W Sub Supply	\$5.95

24V @ 6.5A SUPPLY



MFG: POTRANS
P/N: FS-15024-1M
Input: 110/220VAC 50/60Hz(Switch Select)
Output: 24VDC @ 6.5A
Specifications/Features:
 Enclosed regulated switching supply. Over Voltage, Current & Temperature protected. LED output indicator. Terminal strip In/Out ULUSA/canada/TUV/CE listed.
L: 7.8" **W:** 4.38" **H:** 2" **WT:** 1.9

STOCK #	DESC.	1EA	48EA
17436-PS	24V/6.5A 150W Supply	\$14.95	\$12.95

5.1V & ±12V POWER SUPPLY



MFG: ARTESYN
P/N: NAN25-7628
Input: 100V-240VAC 50/60 HZ
Outputs: #1: +5.1VDC @ 2A #2: +12V @ 0.2A #3: -12V @ 0.2A
Specifications/Features: Max output 25W. Open frame, switching supply. Over current protection. Header connectors in/out. UL/CSA/VDE/CE listed
L: 5" **W:** 3" **H:** 1-3/8" **WT:** .41

STOCK #	DESC.	1EA	40+EA
15871-PS	Artesyn 5 & ±12 Supply	\$5.95	\$4.95

5V @ 12A SUPPLY



MFG: METAPO
P/N: IM061C05-0M
Input: 100-240VAC 50/60Hz
Output: 5VDC @ 12A
Specifications/Features:
 Enclosed regulated switching supply. Over Voltage & Current protected. 50mV max Ripple & Noise. LED output indicator. Terminal strip In/Out ULUSA/canada listed.
L: 6-1/4" **W:** 3-3/4" **H:** 1-1/2" **WT:** 1.2

STOCK #	DESC.	1EA
17433-PS	5V/12A MetapoSupply	\$16.95

+5VDC & ±12V SUPPLY



MFG: AUTECH
P/N: UPS40-3003
Input: 115V/230VAC 50/60Hz
Outputs: #1: +5V @ 3A #2: +12V @ 2A #3: -12V @ .3A
Specifications/Features: 40W max output. Open frame, regulated switching supply. Over current protection. Header pins in & out. UL/CSA/TUVE listed.
L: 5-3/8" **W:** 3-9/16" **H:** 1-1/4" **WT:** .6

STOCK #	DESC.	1EA	10+EA
16693-PS	3 Output Autec Supply	\$12.95	\$10.95

18V/1.1A SUPPLY



MFG: AULT
MODEL: SUBVM1020B18
Input: 120VAC 60Hz
Output: 18VDC @ 20W (1.1A)
Specifications/Features: Regulated board supply. Subassembly for desktop supply. No mounting frame or input terminals. Std. IEC AC input connector on board. Wires or terminals must be soldered to board.
L: 3-9/16" **W:** 2-5/16" **T:** 1-3/8" **WT:** .5

STOCK #	DESC.	1EA
17632-PS	18VDC/20W Sub Supply	\$5.95

24.5V @ 5A SUPPLY



MFG: NORTH AMERICAN
P/N: 9T89Y1038G02
Input: 115V 60Hz
Output: 24.5V @ 5A
Specifications/Features:
 USED, Enclosed switching supply. Overvoltage/ Current. Header terminals in, 6 Pin connector out. UL/CSA listed.
L: 8" **W:** 4-3/4" **H:** 2-1/2" **WT:** 1.78

STOCK #	DESC.	1EA	10+EA
12912-PS	24.5V @ 5A Supply	\$14.95	\$13.95

+5V & 12V SUPPLY



MFG: ARTESYN
P/N: NFN40-7607
Input: 100-240 VAC 47-440Hz
Outputs: #1: +5V @ 3A #2: +12v @ 2A #3: -5V @ .35A
Specifications/Features:
 Open switching supply. .2% Line/2% Load Reg +5V, 5% others. Over current protected. Header pins In/Out. UL/CSA/VDE listed
L: 5" **W:** 3" **H:** 1-1/4" **WT:** .7

STOCK #	DESC.	1EA
17721-PS	+ & -5V & +12V Supply	\$5.95

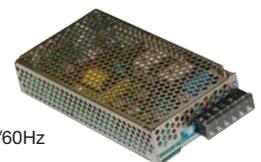
11.5V & 4.5V FERRORESONANT SUPPLY



MFG: MAGNETIC WINDINGS
Input: 120 VAC 60 Hz
Outputs: #1 11.5V @ 20A #2: 4.5V @ 3.5A
Specifications/Features:
 Uses a ferro resonant transformer to provide regulation. Approx. regulation is 10%. Steel chassis holds transformer, Bridges & Caps. Test panel with jacks for meter. 6" cables in/out. UL/CSA listed.
L: 14-1/4" **W:** 7" **H:** 7" **WT:** 23

STOCK #	DESC.	1EA	5+EA
15543-PS	11.5V Ferroresonant P/S	\$29.95	\$27.95

58V @ 1A SUPPLY



MFG: VOLGEN
P/N: SP50U-58S
Input: 100-230 VAC 50/60Hz
Output : 58V @ 1.0A
Specifications/Features: Enclosed switching supply. .5% line, 1% load reg. 1% P/P noise/Ripple. Over load and over voltage protected. Screw terminals. UL/CANADA/USA/CE listed.
L: 7" **W:** 3-1/2" **H:** 1-1/4" **WT:** 1

STOCK #	DESC.	1EA	10+EA
15814-PS	58V/1A Volgen Supply	\$19.95	\$18.95

24V @ 1.1A SUPPLY



MFG: MEANWELL
P/N: S-25-24
Input: 100-240VAC 50/60Hz
Output: 24VDC @ 1.1A

Specifications/Features:
Enclosed regulated switching supply. Over Voltage & Current protected. 100mV max Ripple & Noise. LED output indicator. Terminal strip In/Out. UL/CE/TUV listed.
L: 3.9" W: 3.82" H: 1.42" WT: .81

STOCK #	DESC.	1EA
17720-PS	24V/1.1A Meanwell Supply	\$18.95

5V/12A POWER SUPPLY



MFG: SPC TECH.
P/N: SPC11486
Input: 100/120/220-240VAC 47-63Hz
Output: 5V @ 12A

Specifications/Features:
Open frame linear supply, UL/CSA/TUV/CE listed+.05% Regulation, Full rated to 50°C, Foldback Current Limit, no minimum load, Remote Sense, UL/CSA/TUV/CE listed.
L: 9" W: 4-15/16" T: 3-1/4" WT: 7.8

STOCK #	DESC.	1EA
17638-PS	5V@10A Power Supply	\$24.95

3 OUTPUT SUPPLY



MFG: EOS
P/N: VLT130-3100-S2
Input: 90-263 VAC 47-63Hz
Output #1: +3.3V @ 16A #2: +5V @ 14A #3: +12V @ 1.5A

Specifications/Features: Requires 32CFM cooling. Power Fail output, Remote Sense on #1 & 2 Outputs, Current share for paralleling (#1 & #2) Over current protection. Header Pins AC Input, Terminal Strip Outputs, Header for Share & remote Sense connections. UL/canada/usa/VDE/CE Listed.
L: 5" W: 3" T: 1" WT: .6

STOCK #	DESC.	1EA	50EA
18090-PS	3 Output EOS Supply	\$10.95	\$9.95

WORKSTATION SUPPLY



MFG: SONY/SILICON GRAPHICS
P/N: APS-90/060-0032-001
Input: 100-240VAC 50/60Hz

Outputs: #1: +3.43V @ 31A #2: +5.1V @ 10A #3: +12V @ 3.2A #4: -12V @ .25A #5: +3.3V @ .01A
Specifications/Features: 170W max output Enclosed modular, supply built for SGI's Model O2 Graphics Workstation. Std. IEC Input AC connector, non standard 24(2X12)socket connector similar to that used on computers. UL/canada/usa/TUV/CE listed.
L: 8-3/8" W: 4-3/4" H: 3-7/8" WT: 3.2

STOCK #	DESC.	1EA
17187-PS	SGI Workstation Supply	\$14.95

12V/4A DC BRUTE SUPPLY



Input: 115VAC 60Hz
Output: 12VDC @ 4A
Specifications/Features: Un-regulated DC supply designed for use in custom equipment. Open supply has attached 2 wire line cord with in line panel mount switch. 4in. output wires with socket pin housing.
L: 4-7/8" W: 2-1/2" HT: 2-1/4" WT: 2.5

STOCK #	DESC.	1EA
17636-PS	12V/4A Brute Supply	\$7.95

12V/3.4A POWER SUPPLY



MFG: CONDOR
P/N: MCP1425
Input: 100/120/215/230-240VAC 47-63Hz
Output: 12VDC @ 3.4A

Specifications/Features:
Open frame, linear, medical grade supply. Over current protected, Solder terminals in/Out. UL/CSA/TUV/CE listed.
L: 5-5/8" W: 4-7/8" T: 2-7/8" WT: 5

STOCK #	DESC.	1EA	10+EA
16791-PS	12V Condor Supply	\$39.95	\$34.95

13.5V 37A SUPPLY



MFG: HENGFU
P/N: HF500W-S-13.5
Input: 90-130 VAC 50/60Hz
Output : 13.5VDC @ 37A

Specifications/Features:
High reliability Enclosed, Switching power supply. •Overvoltage, Overcurrent, Short Circuit Protected •100% Full Load Burn-in Tested--Full rated to 50°C No minimum load.
L: 11" W: 6.5" H: 3.5" WT: 6.3

STOCK #	DESC.	1EA	10EA
16502-PS	13.5V/37A 500W Supply	\$195.00	\$159.00

+5VDC & +12V SUPPLY



MFG: LAMBDA/NEMIC
P/N: SWT100-522
Input: 85-265VAC 47-63Hz
Outputs: #1: +5V @ 8A #2: +12V @ 4A #3: -12V @ .8A
Specifications/Features: 100W max output. Open frame, regulated switching supply. Line Reg: 1% +5V& -12V; 2% on +12. Over current protection. Header pins in & out. UL/US/CANADA/CE listed.
L: 7-3/4" W: 4-1/4" H: 1-1-7/8" WT: 1.5

STOCK #	DESC.	1EA	10+EA
17940-PS	3 Output Lambda	\$15.95	\$14.95

12V@3.5A DC/DC CONVERTER



MFG: IPS
P/N: PD65-12-LC
Input: 10-30VDC (24V Nom)
Output: 12V @ 3.8A
Specifications/Features: Max. output 45W Factory Pre-Wired with 24in Output & a12ft. Input cable harness. Enclosed, DC input switching supply. 0.5% line Reg./1% load Reg, 1%P/P noise/ripple. Header pins for Input & Output connections.
L: 6-3/4" W: 4-1/8" H: 2-1/8" WT: 2.2

STOCK #	DESC.	1EA
18136-PS	12V@3.8A DC/DC Supply/Wired	\$9.95

DC/DC 300W ATX CONVERTER



MFG: SUNPOWER
P/N: SDX-6300-48
STYLE: Custom
Input: 36-72 VDC (48V Nom)
Output #1: +3.3V @ 20A #2: +5V @ 30A #3: +5VDCSB @ 2A #4: +12V @ 16A #5: -12V @ 1A #6: -5V @ .6A
Specifications/Features: MAX Combined +3.3 & 5V =150W, Max Combined -5 & -12V=12W Rear fan, DC input switching supply, Terminal Strip for input power Single 2 X10 (20) pin mother board connector, 7 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. CE Listed.
L: 9" W: 2-5/8" H: 4" WT: 3.4

STOCK #	DESC.	1EA
18051-PS	300W DC/DC Computer Supply	\$24.95

6 OUTPUT SUPPLY



MFG: POWER-ONE
P/N: SP647
Input: 85-250VAC 50/60Hz.
Outputs: #1: +3.3V @ 30A #2: +5V @ 15A #3: +12V @ 3A #4: +5V @ 1A #5: -12V @ 1A #6: -12V @ 3A
MAX V1+V2 current: 40A
150W Max. output with 300 LFM air Flow
Specifications/Features: Power Factor corrected "U" frame switching supply similar to MPU150 series. 1.5% Reg on 3.3V Output, 1% Reg. on 5V Output, 7% Reg. on all others. UL/CSA/TUV/CE Listed, Remote sense on V1 & V2

I/O connectors
Input: Molex 41695 series
Output V1 & 2 : Terminal strip
Other Outputs: Molex 41695 series
Control: Molex 5264-N
L: 9-1/2" W: 4-1/4" H: 1-1/2" WT: 2.7

STOCK #	DESC.	1EA	5+EA
17847-PS	6 Output Power-1	\$34.95	\$29.95

24V @ 1.8A SUPPLY



MFG: POTRANS
P/N: FS-04024-1M
Input: 100-240VAC 50/60Hz
Output: 24VDC @ 1.8A

Specifications/Features:
Enclosed regulated switching supply. Over Voltage & Current protected. LED output indicator. Terminal strip In/Out. UL/usa/canada/CE listed.
L: 5.1" W: 3.86" H: 1.5" WT: 1.1

STOCK #	DESC.	1EA	40EA
17426-PS	24V/1.8A 40W Supply	\$14.95	\$12.95

12V @ 3.5A POWER SUPPLY



MFG: ILAN
P/N: F1651
Input: 100-240VAC 50/60 Hz
Output: 12VDC @ 3.5A

Specifications/Features:
Open frame switching supply. Over Voltage & Current protected. Header pins In/Out. UL/canada Listed.
L: 5" W: 3" H: 1-1/8" WT: .4

STOCK #	DESC.	1EA	20+EA
16741-PS	12V Ilan Power Supply	\$6.95	\$5.95

12V@17A SUPPLY



MFG: PHIHONG
P/N: PSM204-120 (AC)
Input: -100-240VAC 50/60Hz.
Output: 12V @ 17A

Specifications/Features: Max. output 204W with 36CFM Airflow. P.C. board switching supply. 1% line Reg./5% load Reg, 200mV/P noise/ripple. Header pins for input power, 6in. cable with single 2 X7 (14) pin output/control connector. UL/usa/canada/TUV/CE Listed.
L: 7-3/4" W: 4" H: 1-1/4" WT: 1.3

STOCK #	DESC.	1EA	25+EA
18091-PS	12V@17A Power Supply	\$14.95	\$12.95

+5V/3.7A, -5V/.05A, +12V/0.6A SUPPLY



MFG: VOLTEK
P/N: SPEC7188B
Input: 100-240VAC 50-60Hz
Outputs: #1: +5V @ 3.7A #2: +12V @ 0.6A #3: -5V @ 0.05A #4: +5VTrickle @ 0.1A

Specifications/Features:
Removed from new equipment. Enclosed switching supply. With Std. IEC power inlet connector. Overvoltage & current limit protection. 3in. output wires to 7 pin header socket. UL/CANADA/USA/CE listed.
L: 9" W: 2-1/8" H: 1-1/2" WT: 1.1

STOCK #	DESC.	1EA
11687-PS	Multi Output Voltek	\$3.95

250W TFX SERVER SUPPLY



MFG: ETASIS
 P/N: EFA-250
 STYLE: TFX1.2 (20pin)
 Input: 100-240 VAC 47-63Hz
 Output #1: +3.3V @ 20A #2: +5V @ 25A
 #3: +12V @ 13A #4: -12V @ .8A #5: +5VDCSB @ 2A
Specifications/Features: 230W Max combined +5V +3.3V & +12V. TFX form factor 250W switching supply for P.C. server. Standard IEC input power connector on back. Single 2X10 mother board connector, 4 molex 4 pin IDE connectors & 1 mini 4 pin for Floppy drives, etc. UL/canada/usa/TUV/CE listed.

L: 1.1"	W: 1-5/8"	H: 3-3/8"	WT: 2.5
STOCK #	DESC.	1EA	
17447-PS	Skinny 250W TFX P/S	\$19.95	

300W AT SUPPLY



MFG: ATHENA
 P/N: AT30
 STYLE: AT
 Input: 110/220 VAC 50-60Hz
 Output #1: +5V @ 30A #2: +12V @ 16A
 #3: -5V @ .5A #4: -12V @ .5A
Specifications/Features: AT form factor 300W switching supply for P.C. systems. IEC input power connector & monitor power connector on back. Power switch on 12in. Cable. Standard P-1 & P-2 1X6 mother board connectors & 4 molex 4 pin IDE connectors & 1 mini 4 pin for FDD etc. UL/TUV/CE listed.

W: 6"	D: 6"	H: 3-3/8"	WT: 3
STOCK #	DESC.	1EA	
17028-PS	300W AT Supply	\$39.95	

465W SERVER SUPPLY



MFG: NMB
 MODEL: PG465-20ASV01110
 P/N: Sun XR004A465WSW
 STYLE: SSI
 Input: 100-240 VAC 47-63Hz
 Output #1: +3.3V @ 35A
 #2: +5V @ 18A #3: +5VDCSB @ 1.5A
 #4: +12V @ 24A #5: -12V @ .5A
 (200W Max combined +5V & 3.3V output)
Specifications/Features: SSI form factor switching supply for SUN-MICRO Server. Standard IEC input power connector on back. Single 2 X12 (24) pin mother board connector. Aux 2 X 5 (10) pin +5 & +12V connector, a 3 X 2 (6) pin +12V male connector, 1 molex 4 pin IDE connector & a 2 X 2 (4) pin +5 & +12V connector. Back fan. UL/canada/usa/TUV/CE listed.

W: 6"	D: 7-1/8"	H: 3-7/16"	WT: 6
STOCK #	DESC.	1EA	
17512-PS	465W Server Supply	\$29.95	

680W ATX SUPPLY/PCIe



MFG: ECHO STAR
 STYLE: ATX (20 + 4pin)
 Input: 115/230VAC 50/60Hz
 Outputs: #1: +3.3V @ 35A
 #2: +5V @ 50A #3: +12V @ 26A
 #4: -5V @ 0.6A #5: -12V @ 1.0A #6: +5V SB @ 2.5A
Specifications/Features: Single Blue LED lighted fan, 680W switching supply for P.C. systems. IEC input power connector, Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU Core connector, 1 PCIe 6 pin connector, 2 SATA drive connectors, 6 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. Single Blue lighted fan.

W: 6"	D: 6-1/4"	T: 3-1/4"	WT: 2.9
STOCK #	DESC.	1EA	
17715-PS	680W ATX Supply/PCIe	\$45.95	

250+250W ATX REDUNDANT SUPPLY



STYLE: ATX1.3 (20pin)
 MFG: ETASIS
 P/N: EPR-2251-6B112
 Input: 110/220 VAC 50-60Hz
 Output #1: +3.3V @ 15A
 #2: +5V @ 30A #3: -5V @ .5A
 #4: +12V @ 14A #5: -12V @ 1A
 #6: +5VDCSB @ 1.5A
Specifications/Features: 2 X 250W redundant, hot swap supply. 230W Max combined +5 & +3.3V output. ATX form factor 250W switching supply for P.C. systems/servers. Standard IEC input power connector, alarm silence switch & power switch on back. Single 2X10 mother board connector & 6 molex 4 pin connectors & 1 mini 4 pin for drives etc. Remote "Power" Green LED, Supply 1 & 2 fail Amber LEDs, "Fault" output signal leads and Remote Silence leads for remote switch all with 20+in leads. UL/TUV/CE listed.

W: 5-7/8"	D: 7-1/2"	H: 3-3/8"	WT: 7.5
STOCK #	DESC.	1EA	
17094-PS	250W X 2 ATX Supply	\$29.95	
17106-PS	Spare Hot Swap 250W Module	\$8.95	

200W ATX SUPPLY



MFG: ASTEC
 P/N: SA202-3530
 STYLE: ATX-1.1(20pin)
 Input: 110/220 VAC 50-60Hz
 Output #1: +3.3V @ 14A #2: +5V @ 22A #3: -5V @ .5A
 #4: +12V @ 8A #5: -12V @ .8A #6: +5VDCSB @ .2A
 (23A Max combined +5 and +3.3V) ATX form factor 200W switching supply for replacement in P.C. & Machine tool systems. IEC input power connector & IEC Monitor power connector on back (NO POWER SWITCH). Single 2 X10 (20) pin mother board connector, 4 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. Fan on Back. UL/CSA/VDE listed.

L: 5-5/8"	W: 5-7/8"	H: 3-3/8"	WT: 27
STOCK #	DESC.	1EA	
17986-PS	200W ATX Power Supply	\$9.95	

480W ATX POWER SUPPLY



MFG: ECHO STAR
 STYLE: ATX-2 (20-24pin)
 Input: 115/230VAC 50/60Hz
 Outputs: #1: +3.3V @ 28A
 #2: +5V @ 36A #3: +12V @ 16A
 #4: -5V @ .5A #5: -12V @ .8A #6: +5V SB @ 3A
Specifications/Features: 480W switching supply for P.C. systems. IEC input power connector, Power switch on back. 20pin ATX mother board connector, 4 molex 4 pin connectors, 2 mini 4 pin for FDD, and 4 pin Aux. +12V CPU Core connector. Fan on top & back. CE listed

W: 5-7/8"	D: 5-1/2"	H: 3-3/8"	WT: 2.5
STOCK #	DESC.	1EA	10+EA
16958-PS	480W ATX Supply	\$39.95	\$34.95

600W ATX/SATA



MFG: ECHO-STAR
 STYLE: ATX-20/24
 Input: 115/230 VAC 50/60Hz
 Output #1: +3.3V @ 45A
 #2: +5V @ 42A
 #3: +5VDCSB @ 3A #4: +12V @ 22A #5: -12V @ .8A
Specifications/Features: Dual fans, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector on back. Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 1 SATA drive connector, 4 molex 4 pin IDE connectors, 2 mini 4 pin for FDD. Back & top fans. CE listed.

W: 6"	D: 6"	H: 3-1/4"	WT: 3
STOCK #	DESC.	1EA	
17714-PS	600W ATX Supply	\$39.95	

130W 1U SUPPLY



MFG: DELTA for SUN
 P/N: DPS-129AB A/300-1448
 STYLE: CUSTOM 1U
 Input: 100-240 VAC 47-63Hz
 Output #1: +3.3V @ 10A #2: +5V @ 15A
 #3: +12V @ 6A #4: -12V @ .4A #5: +5VDCSB @ .25A
Specifications/Features: 75W Max combined +5V & +3.3V. 1U switching supply for Sun Netra[®] equipment. Power ON/STANDBY switch & standard IEC input power connector on back. Single 2X7 mother board connector (+3.3V/+5V/Com.), Two 4 (2 X 2) pin mini connectors (+5V/+12V/Com) & one 1 X 17 Pin control connector. UL/canada/usa/TUV/CE listed.

L: 10"	W: 4-3/8"	H: 1-9/16"	WT: 2.9
STOCK #	DESC.	1EA	
17602-PS	125W 1U Sun Power Supply	\$12.95	

300W AT SUPPLY



MFG: ASTEC
 P/N: SA301-3400
 STYLE: AT
 Input: 110/220 VAC 50-60Hz
 Output #1: +5V @ 32A #2: +12V @ 12A
 #3: -5V @ .5A #4: -12V @ 1A #5: +5VSB @ .1A
Specifications/Features: AT form factor 300W switching supply for P.C. systems. IEC input power connector & monitor power connector on back. NO Power switch. Standard P-1 & P-2 1X6 mother board connectors, P-3 1X6 +5V Mother Board connector, 3 pin mini connector for control (+5VSB, "POWER ON", Common), 3 molex 4 pin IDE connectors & 1 mini 4 pin for FDD etc. UL/CSA/VDE/CE listed.

L: 6"	W: 6"	H: 3-3/8"	WT:
STOCK #	DESC.	1EA	
18000-PS	ASTEC 300W AT Supply	\$19.95	

400W ATX/ SATA



MFG: A-POWER
 STYLE: AGS400
 Input: 115/230 VAC 50/60Hz
 Output #1: +3.3V @ 26A
 #2: +5V @ 35A #3: +5VDCSB @ 2A #4: +12V @ 12A
 #5: -12V @ .6A
Specifications/Features: Rear fan, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector, range & power switch on back. Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 1 SATA drive connector, 3 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. CE, FCC, ROHS Listed

W: 5-7/8"	D: 5-3/4"	H: 3-3/8"	WT: 2.16
STOCK #	DESC.	1EA	
17976-PS	400W A-Power ATX Supply	\$22.95	

420W ATX/SATA



MFG: RAIDMAX
 P/N: RX-420K
 STYLE: ATX-20/24
 Input: 115/230 VAC 50/60Hz
 Output #1: +3.3V @ 26A
 #2: +5V @ 32A #3: +5VDCSB @ 2A #4: +12V @ 20A
 #5: -12V @ .8A #6: -5V @ .5A
Specifications/Features: Front & Rear fan, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector, Voltage range switch & power switch on back., Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 1 SATA drive connector, 4 molex 4 pin IDE connectors, 2 mini 4 pin for FDD. CE Listed

W: 5-7/8"	D: 7" (including Fan)	H: 3-3/8"	WT: 2.5
STOCK #	DESC.	1EA	
18031-PS	420W RaidMax ATX Supply	\$14.95	

575W ATX/PCIe SATA SUPPLY



MFG: LOGISYS
 STYLE: ATX-20/24
 Input: 115/230 VAC 50/60Hz
 Output #1: +3.3V @ 38A
 #2: +5V @ 40A #3: +5VDCSB @ 2A
 #4: +12V @ 25A #5: -12V @ .8A
Specifications/Features: Dual fan, switching supply for P.C. systems. IEC input power connector, Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU Core connector, two 6 pin PCIe connectors, 1 SATA drive connectors, 6 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. Top & Back Fans. UL/CSA/TUV/CE listed.
 W: 5-1/2" D: 5-3/4" H: 3-1/2" WT: 3.5

STOCK #	DESC.	1EA
17717-PS	575W ATX Logisys Supply	\$39.95

480W ATX/SATA SUPPLY



MFG: LOGISYS
 STYLE: ATX-20/24
 Input: 115/230 VAC 50/60Hz
 Output #1: +3.3V @ 28A
 #2: +5V @ 36A #3: +5VDCSB @ 2A
 #4: +12V @ 16A #5: -12V @ .8A
Specifications/Features: Dual fan, switching supply for P.C. systems. IEC input power connector, Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU Core connector, 1 SATA drive connectors, 4 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. Top & Back Fans. UL/CSA/TUV/CE listed.
 W: 5-7/8" D: 5-1/2" H: 3-1/2" WT: 2.6

STOCK #	DESC.	1EA
17716-PS	480W ATX Logisys Supply	\$29.95

260W COMPAQ SUPPLY



MFG: COMPAQ
 P/N: 270647-001
 STYLE: ATX-1.1(20pin)
 Input: 110/220 VAC 50-60Hz
 Output #1: +3.5V @ 10A #2: +5V @ 32A #3: -5V @ .15A
 #4: +12V @ 7A #5: -12V @ .15A #6: +5VDCSB @ 1.2A (170W Max combined +5 and +3.5V) ATX form factor 260W switching supply for replacement in Compaq systems. IEC input power connector on back (NO POWER SWITCH), Single 2 X10 (20) pin mother board connector, 4 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. Fan on Back. UL/TUV listed.
 W: 6-1/2" L: 7" H: 3-7/8" WT: 2.7

STOCK #	DESC.	1EA
18078-PS	260W ATX Compaq Supply	\$19.95

3.3VDC @ 4.55A DESKTOP SUPPLY



MFG: DELTA for CISCO SYS.
 P/N: 341-0008-01
 Input: 100-240VAC 50/60Hz
 Output: 3.3VDC @ 4.55A
Specifications/Features: Removed from new equipment. Enclosed desktop supply. Std. IEC Type1-C14 input connector, 6ft. output cord with 5.5mm O/D, 2.5 mm I/D, Right Angle coaxial plug. UL/us/csa /TUV/CE Listed. MATING POWER CORD: Order Stock # 7378-WI
 L: 4-1/4" W: 2-3/8" H: 1-1/4" WT: .5

STOCK #	DESC.	1EA
18092-PS	Delta 3.3V @ 4.55A Supply	\$5.95

9V @ 1.11A SUPPLY



MFG: FAIRWAY
 P/N: TC10L-090
 Input: 100-120 VAC 50/60Hz
 Output: 9VDC@1.11A
Specifications/Features: Switching wall plug supply with overvoltage & current limit protection. 6ft output cord with 5.5mm OD & 2.1mm ID Rt. Angle coaxial plug Center +. UL/canada/usa listed.
 L: 1-5/8" (Body) W: 2" T: 1-1/8" WT: .28

STOCK #	DESC.	1EA
17836-PS	9V/1.11A Wall P/S	\$6.95

12VDC @ 1A PLUG SUPPLY



MFG: TOSHIBA
 P/N: AD-121ADT
 Input: 120VAC 60Hz
 Output: 12VDC @ 1A
Specifications/Features: Unregulated plug supply with 6ft. , non polarized, 2 prong input and 6ft. output cord with 5.5/2.1mm coaxial connector Center +. UL/CANADA/USA listed.
 L: 3-1/8" H: 2-1/4" T: 2" WT: 1.5

STOCK #	DESC.	1EA
17267-PD	12VDC/1A Plug Supply	\$5.95

12V @ 1A PLUG SUPPLY



Input: 120VAC/60Hz
 Output: 12VDC @ 1000mA
Specifications/Features: Unregulated Plug supply with feed through tap AC Cord. 6ft. cord with a IEC Male molded with a IEC female. Female plugs into back of computer and copmputer cord set plugs into male. 6ft. output Zip cord with 2.1/5.5mm coaxial connector, Center +. UL/CSA listed.
 L: 3-1/4" W: 2-1/4" T: 2" WT: 1.3

STOCK #	DESC.	1EA	12+EA
16419-PD	12VDC Tap Plug Supply	\$3.95	\$3.75

480W ATX/SATA/PCI



MFG: GEN-MAX
 STYLE: ATX-20/24
 Input: 115/230 VAC 50/60Hz
 Output #1: +3.3V @ 32A
 #2: +5V @ 36A #3: +5VDCSB @ 2A
 #4: +12V @ 16A #5: -12V @ .6A #6: -5V @ .6A
Specifications/Features: Top & Rear fans, ATX form factor switching supply. Replacement or new build. Standard IEC input power connector, range switch on back (NO Power Switch). Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU core connector, 1 PCIe 6 pin Connector, 1 SATA drive connector, 6 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. CE Listed
 W: 5-7/8" D: 5-7/8" H: 3-1/2" WT: 2.5

STOCK #	DESC.	1EA
17983-PS	480W Gen-Max ATX Supply	\$26.95

12V @ 2A DESKTOP



MFG: APD
 P/N: DA-24B12
 Input: 100-240 VAC 47-63Hz
 Output: 12VDC 2A
Specifications/Features: Removed from New Equip. Switching supply with overvoltage & current limit protection. IEC 2 line cord connector. 6ft output cord with 5.5mm OD X 2.5mm ID coaxial plug Center +. UL/canada/usa/TUV/CE listed. MATING POWER CORD: Order Stock # 15447-CB
 L: 3-5/8" W: 2-1/4" H: 1-1/4" WT: .4

STOCK #	DESC.	1EA	10+EA
15548-PS	12V @ 2A APD Supply	\$5.95	\$5.00

12V @ 3.33A SUPPLY



MFG: HIPRO
 P/N: HP-02040D43
 Input: 100-240 VAC 50/60Hz
 Output: 12VDC @ 3.33A
Specifications/Features: Desktop switching supply with overvoltage & current limit protection. 1% line, 5% load reg. IEC input AC connector, 6ft output cord with 5.5/2.5mm coaxial plug Center +. LED power indicator. UL/canada/usa/TUV/CE listed. ORDER POWER CORD: Stock # 7378 WI
 L: 4-1/2" W: 2-3/8" H: 1-1/8" WT: .6

STOCK #	DESC.	1EA	10+EA
16918-PS	12V/3.33A Desktop P/S	\$8.95	\$8.50

15V @ .8A DESKTOP SUPPLY



MFG: 3COM
 P/N: AP-1211-LV
 Input: 100-120 VAC 50/60Hz
 Output: 15VDC @ .8A
Specifications/Features: Removed from Equipment. Switching supply with overvoltage & current limit protection. IEC 2 line cord connector. 6ft output cord with 5.5mm OD X 2.5mm ID coaxial plug Center +. UL/canada/usa/TUV/CE listed. MATING POWER CORD: Order Stock # 15447-CB
 L: 4" W: 2-3/8" T: 1-3/8" WT: .5

STOCK #	DESC.	1EA
16790-PS	15V @ .8A Desk Supply	\$2.49

200W ATX SUPPLY



MFG: ASTEC
 P/N: SA202-3530
 STYLE: ATX-1.1(20pin)
 Input: 110/220 VAC 50-60Hz
 Output #1: +3.3V @ 14A #2: +5V @ 22A #3: -5V @ .5A
 #4: +12V @ 8A #5: -12V @ .8A #6: +5VDCSB @ .2A (23A Max combined +5 and +3.3V) ATX form factor 200W switching supply for replacement in P.C. & Machine tool systems. IEC input power connector & IEC Monitor power connector on back (NO POWER SWITCH), Single 2 X10 (20) pin mother board connector, 4 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. Fan on Back. UL/CSA/VDE listed.
 L: 5-5/8" W: 5-7/8" H: 3-3/8" WT: 27

STOCK #	DESC.	1EA
17986-PS	200W ATX Power Supply	\$49.95

9V @ 1.11A SUPPLY



MFG: FAIRWAY
 P/N: VE10B-090
 Input: 100-240 VAC 50/60Hz
 Output: 9VDC@1.11A
Specifications/Features: Switching desktop supply with overvoltage & current limit protection. 2 wire IEC Type2-C8 input connector. 6ft output cord with 5.5mm OD & 2.1mm ID Rt. Angle coaxial plug Center +. UL/canada/usa/TUV/CE listed. MATING POWER CORD: Order Stock # 15447-CB
 L: 3-3/8" W: 2-1/4" H: 1" WT: .6

STOCK #	DESC.	1EA	10+EA
17722-PS	9V/1.11A Desktop P/S	\$5.95	\$5.25

12V @ 2.5A SUPPLY



MFG: APD
 P/N: DA-30I12-ABA
 Input: 100-240 VAC 47-63Hz
 Output: 12VDC 2.5A
Specifications/Features: Removed from New Equip. Switching desktop supply with overvoltage & current limit protection. Polarized 2 wire IEC Type2- input connector. 6ft output cord with ferrite filter & 5.5/2.1mm ID coaxial plug Center +. UL/canada/usa listed. ORDER POWER CORD: Stock # 15449-CB
 L: 4-5/8" W: 2-3/8" H: 1-1/4" WT: .5

STOCK #	DESC.	1EA	40+EA
17841-PS	12V @ 2.5A APD Supply	\$6.95	\$5.95

12V @ 1.2A SUPPLY



MFG: GLOBTEK
 P/N: GT-41052-1512
 Input: 100-240 VAC 47-63Hz
 Output: 12VDC @ 1.2A
 Wall plug switching supply with overvoltage & current limit protection. 9ft output cord with 5.5mm OD X 2.5mm ID coaxial plug Center + with threaded locking ring & ferrite filter. Includes 4 Interchangeable AC Input blades for: US/ N.America, Australia, UK, Hong Kong, & Europe. UL/canada/usa/CE listed.
 D: 1-3/8" (no blades) W: 1-5/8" H: 3" WT: .6

STOCK #	DESC.	1EA
18066-PS	12V/1.2A International Supply	\$6.95

**+5 & +12V
DESKTOP SUPPLY**



MFG: REXON
P/N: AC-005 / PB25A-211EBG
Input: 100-240 VAC 50/60Hz
Output #1: +5V @ 1.5A #2: +12V @ 1.5A
Specifications/Features: Removed from New Equip. Desktop switching supply. Over current protection. Std. IEC 3 wire input connector. 4ft. output cable with 4Pin Mini DIN connector. UL/CANADA/USA/VDE/CE Listed. POWER CORD: Order Stock # 7378-WI
L: 4-1/2" W: 2" H: 1-1/2" WT: .7

STOCK #	DESC.	1EA
15549-PS	+5 & +12V Rexon Desktop	\$5.95

**+5V & -30V,
DESKTOP SUPPLY**



MFG: ARTESYN
P/N: SCL-7630E
Input: 100-240VAC 50/60Hz
Outputs: #1: +5V/2A #2: -30V @ 0.3A
Specifications/Features: Desktop switching supply with overvoltage & current limit protection. Std. 3 wire IEC input connector. 6ft output cord with 8Pin Mini DIN Plug. UL/CSA/TUV/CE listed. ORDER POWER CORD: Stock # 7378-WI
L: 6-1/4" W: 3-3/8" T: 1-1/2" WT: 1.5

STOCK #	DESC.	1EA
16805-PS	Artesyn Desktop Supply	\$3.95

**+5V & +12V@
1.5A SUPPLY**



MODEL: NU25-22120-140A
Input: 100-240VAC 50/60Hz
Outputs: #1: +5V @ 1.5A #2: +12VDC @ 1.5A
Specifications/Features: Regulated, desktop switching supply. Std. IEC input connector. 6ft. Output cord with 4Pin Mini DIN connector. UL/canada/usa/TUV/CE listed. ORDER POWER CORD: Stock # 7378-WI
L: 4-1/2" W: 2-1/8" T: 1-1/2" WT: .64

STOCK #	DESC.	1EA
17182-PS	+5 & +12V Desktop Supply	\$4.95



A

**VICOR DC/DC
CONVERTER
MODULES**



C

Compact, efficient, High frequency DC/DC converters for modular systems. 05% line/load reg. 1% P/P ripple, short circuit protected, remote sense. Some feature integral heatsink. Booster modules are used with standard modules for increased output and feature disable input.

A: L: 4.6" W: 2.4" H: .5" B: L: 2.3" W: 2.4" H: .5" C: L: 6.25" W: 4.75" H: 1.75"

STOCK #	FIG.	MFG/MODEL #	INPUT NOM.	INPUT RANGE	OUTPUT VOLTS	AMPS/WATTS	DESCRIPTION	WT.	1EA	5+EA
17063-PS	A	Vicor VI-9082	48VDC	42-60	12V	7A/80W	Master Module	.5	\$80.00	----
6654-PS	A	Vicor VI-B30-06	48VDC	42-60	5V	20A/100W	Booster Module	.5	\$80.00	\$69.00
7730-PS	A	Vicor VI-9080	48VDC	42-60	5V	10A/50W	Master Module	.5	\$65.00	\$49.00
7724-PS	A	Vicor	48VDC	42-60	5V	10A/50W	Booster Module	.5	\$60.00	\$49.00
11414-PS	C	Vicor VI-FPE6-CQX	120/240VAC	100-120/200-240	300V	500W	Front End Control	1.2	\$99.95	\$85.00

**15V 13A DC/DC
CONVERTER/
BOOSTER**



MFG: RELIANCE
P/N: LMB32-CU
Input: 42-60V DC (48V)
Output: 15V DC 200W (13A)
Specifications/Features: Similar to Vicor VI-B32-CU. Requires +5VDC Logic for turn on. Booster module operates in parallel with standard module. Control is supplied from standard module. Short circuit protected.
L: 4.6" W: 2.4" H: .5" WT: .5

STOCK #	DESC.	1EA	5+EA
11325-PS	Reliance Module	\$25.00	\$22.95

"AA" NI-CAD CHARGER



MFG: SANYO
P/N: NC-455
Input: 120 VAC 50/60Hz
Output: 12V @ 100mA
Specifications/Features: USED. Wall plug unit for charging 4 "AA" rechargeable NI-CAD cells. UL listed
L: 4-1/8" W: 1-3/4" D: 1-3/4" WT: .4

STOCK #	DESC.	1EA	10+EA
15192-PS	"AA" Battery Charger	\$4.95	\$4.50

RECHARGEABLE BATTERIES



Sealed Lead/Acid gell cells with .187 Quick connect terminals. For general purpose use in UPS systems, Alarms, Portable lighting. 20hr capacity rating.
17280: 2.8" L X 1.9" W X 4.2" H
14817: 6" L X 1.4" W X 3.9" H
14819: 6" L X 2.6" W X 3.9" H

STOCK #	DESC.	WT.	1EA	5+EA
17280-BT	6V@4A (NP4-6)	2	\$7.95	\$7.45
14817-BT	6V@8A (NP8-6)	4.5	\$18.95	\$17.95
14819-BT	12V@7A (NP7-12)	6	\$20.95	\$19.95

THOUSANDS
more Items on www.mpja.com

**24VDC TO 12VDC
CONVERTER**



MFG: SAMLEX
P/N: SDC23
Input: 20-30 VDC
Output: 12V @ 20A
Specifications/Features: Fully enclosed switching converter. Reverse polarity, over load, short circuit, over voltage and over temp. protected. Terminal strip In/Out.
W: 7-3/4" D: 4-3/4" H: 2-3/8" WT: 2

STOCK #	DESC.	1EA	5+EA
14335-PS	24/12V DC/DC Conv.	\$129.95	\$110.00

**"AA" NI-CAD/NI-MH
CHARGER**



P/N: V-888N
Input: 120 VAC 50/60Hz
Output: 2.4VDC
Specifications/Features: Wall plug unit for charging 2 or 4 "AA" rechargeable NI-CAD or NI-MH cells. UL/canada/usa listed.
L: 4-1/8" W: 1-1/2" D: 1-3/8" WT: .3

STOCK #	DESC.	1EA
16414-PS	"AA" Battery Charger	\$2.95

**+5V & +-15VDC
DC/DC CONVERTER**



MFG: CALEX
P/N: 7524
Input: 40 to 60VDC
Outputs: #1: +5V @ 4.0A
#2: +15V @ 330mA #3: -15V @ 330mA
Specifications/Features: Short circuit protected. 40mVp-p ripple, +2% Line Reg. & 8% Load Reg.
L: 3" W: 2-9/16" H: 7/8" WT: .47

STOCK #	DESC.	1EA	12+EA
17412-PS	Calex Converter	\$8.95	\$7.95

**5V/10A DC/DC
CONVERTER**



MFG: DIGITAL POWER
MODEL: DP50-105
Input: 36-75VDC
Output: 5VDC @ 8A (10A @ 28CFM air)
Specifications/Features: Regulated DC/DC converter. .2% Line/3% load Reg. Over Voltage & Current protected. Header Pins In/Out. UL/canada/us/TUV
L: 5" W: 3" T: 1-1/4" WT: .48

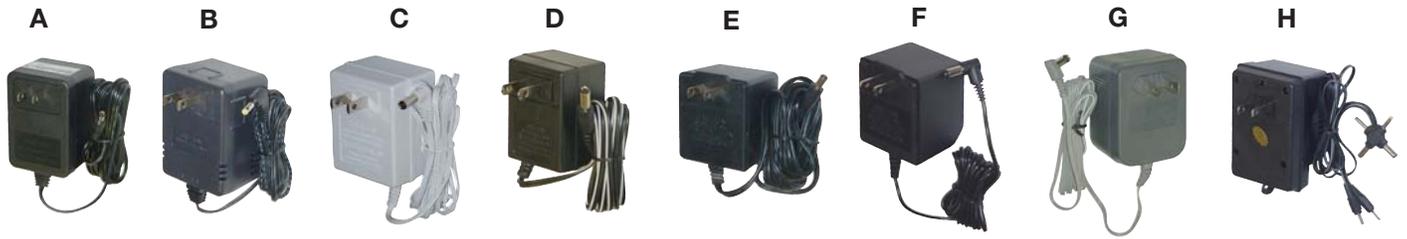
STOCK #	DESC.	1EA
17634-PS	48 to 5VDC/DC Converter	\$5.95

**MINI NI-CAD
NI-MH
CHARGER**



MFG: FUHUA
Input: 120 VAC 50/60Hz or 12VDC
Specifications/Features: Portable mini unit for charging 4 "AA" or "AAA" rechargeable NI-CAD or Ni-Metal-hydrate cells. Includes plug supply for 115VAC use and a cigarette lighter plug for car use.
L: 2-3/4" W: 2-1/8" D: 1-1/8" WT: .9

STOCK #	DESC.	1EA	12+EA
16156-PS	4Cell Battery Charger	\$5.95	\$4.95



**ALL PLUG/DESKTOP SUPPLIES LISTED HERE: 120VAC/60HZ INPUT
UNREGULATED DC OUTPUT**

STOCK #	FIG.	VOLTS	AMPS	TERMINATION (ID X OD)	LEN.	CLR.	DIM. L: X W: X D:	MANU./PART NUMBER	LISTED	WT.	1EA	12+EA
17837-PD	D	6VDC	.1A	5.5mm /2.1mm - Coaxial-Ctr. Pos.	6'	BLK	2" x 1-3/8" x 1-3/8"	DVE/DV-6100	UL/CSA	.26	\$2.95	----
17840-PD	D	6VDC	.1A	5.5mm /2.5mm - Coaxial-Ctr. Pos.	6'	BLK	2" x 1-3/8" x 1-3/8"	Elect.Etc./WD1B100LCP	UL/CSA	.26	\$2.95	----
15178-PD	B	6VDC	.5A	4mm /1mm - Coaxial-Ctr. Pos.	6'	BLK	3" x 1-3/4" x 1-7/8"	AD6500RDU	UL/us/can	.9	\$2.25	\$1.95
16228-PD	C	6VDC	.8A	5.5mm/2.5mm - Rt. Ang.Coaxial-Center Pos.	6'	WHT	2-5/8" x 2" x 1-3/4"	OTRES/CX06V800	UL/CSA	.7	\$4.95	----
17625-PD	E	6VDC	1.5A	5.5mm/2.5mm - Coaxial-Ctr. Pos.	6'	BLK	2-5/8" x 2-1/4" x 2"	AULT/P48061500A000G	UL/CSA	.9	\$3.25	\$2.95
15709-PD	B	6VDC	2A	5.5mm/2.1mm - Coaxial-Ctr. Pos.	5'	BLK	3-1/4" x 2-3/16" x 2"	Telocity/DPX542209	UL/CSA	1.2	\$3.25	\$2.95
17662-PD	A	6VDC	2A	5.5mm/2.1mm - Coaxial-Ctr. Pos.	5'	BLK	3-1/4" x 2-3/8" x 1-7/8"	Telocity/MKD-48062000	UL/CSA	1.3	\$4.95	----
17556-PD	D	7.5VDC	.03A	5.5mm/2.1mm - Coaxial-Ctr. Pos.	5'	BLK	2" x 1-3/8" x 1-3/8"	Metagram/SS-75031	UL/CSA	.27	\$1.95	----
17557-PD	D	7.5VDC	.1A	5.5mm/2.1mm - Coaxial-Ctr. Pos.	5'	BLK	2" x 1-3/8" x 1-3/8"	Superpower/DV7510	UL	.3	\$2.95	----
17558-PD	D	7.5VDC	.3A	5.5mm/2.1mm - Coaxial-Ctr. Pos.	5'	BLK	2 1/4" x 1-3/4" x 1-1/2"	Globtek/WD1C300L95CP	UL/CSA	.38	\$3.95	----
17369-PD	H	1.5-12VDC	1A	UNIVERSAL PLUG SUPPLY	5'	BLK	3-7/8" x 2-5/8" X 2"	-----	-----	1	\$8.95	\$8.05

Selectable Outputs: 1.5, 3, 4, 5, 6, 7.5, 9, 12VDC, Sel. Polarity, 5.5/2.5, 5.5/2.1, 4/1.7, 3.5/1.35, 3/1, 2.5/1.7mm OD Coaxial Plugs, LED Power ind.



**ALL PLUG/DESKTOP SUPPLIES LISTED HERE: 120VAC/60HZ INPUT
UNREGULATED DC OUTPUT**

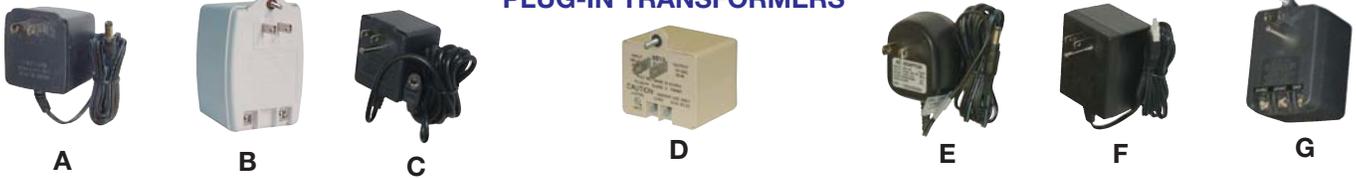
STOCK #	FIG.	VOLTS	AMPS	TERMINATION (ID X OD)	LEN.	CLR.	DIM. L: X W: X D:	MANU./PART NUMBER	LISTED	WT.	1EA	12+EA
17565-PD	I	12VDC	.15A	Stripped back Mini ZIP Cord	6'	Wht.	2-3/8" x 1-3/4" x 1-7/8"	Lucent/4000T	UL	.4	\$2.95	----
17287-PD	J	12VDC	.3	USED/5 .5mm/2.1mm Coaxial-Ctr. Pos	6'	BLK	2-3/8" x 2" x 1-5/8"	Plantronics/29527-01	UL/CSA	.6	\$2.49	----
17972-PD	J	12VDC	.5	3.5mm/.4mm Coaxial-Ctr. Pos	6'	BLK	2-1/2" x 2" x 1-5/8"	AD-41120600	UL/CSA	.62	\$1.25	\$0.99(40)
17563-PD	M	12VDC	1.2A	5.5mm/2.5mm Coaxial-Ctr. NEG. Unfiltered	6'	BLK	3-1/4" X 2-3/8" X 2"	Power Drivers/AU48-120-120T	UL/CSA	1.2	\$4.95	----
7500-PD	N	12VDC	1A	Cigarette Lighter Socket		BLK	4-1/8" X 2-1/4" X 1-7/8"	Samlex/SCP48-121000L	UL	1.1	\$12.95	\$11.65
18101-PD	K	15VDC	1	5.5mm/2.5mm Coaxial-Ctr. Pos	6'	BLK	3-1/4" x 2-1/4" x 2"	AULT/P48151000A020G	UL/CSA	1.27	\$4.95	\$4.25



**ALL PLUG/DESKTOP SUPPLIES LISTED HERE: 120VAC/60HZ INPUT
UNREGULATED DC OUTPUT**

STOCK #	FIG.	VOLTS	AMPS	TERMINATION (ID X OD)	LEN.	CLR.	DIM. L: X W: X D:	MANU./PART NUMBER	LISTED	WT.	1EA	12+EA
17624-PD	S	18VDC	.40A	6' line cord/5.5mm/2.1mm Coaxial-Ctr. Pos.	6'	BLK	4-1/2" X 2-7/8" X 2-3/8"	CHANGZHOU P/N:SH-DC18V4005	UL	.6	\$4.95	\$4.25
15890-PD	X	30VDC	.4A	3' line cord/6.5mm/2.5mm Coaxial-Ctr. Neg.	5'	BLK	4-1/2" X 2-5/8" X 2-3/16"	H/P /C2183A/9100-5195b	-----	1.4	\$19.95	----

PLUG-IN TRANSFORMERS



AC OUTPUT TRANSFORMERS
ALL PLUG TRANSFORMERS 120VAC/60HZ INPUT

STOCK #	FIG.	VOLTS	AMPS	TERMINATION (ID X OD)	LEN.	CLR.	DIM. L: X W: X D:	MANU./PART NUMBER	LISTED	WT.	1EA	12+EA
12635-PA	B	12VAC	3A	2 Pos.Screw-LED Ind.	-	White	4" x 2-5/8" x 2-1/4"	MG Electronics	UL	1.6	\$7.95	\$7.45
17341-PA	E	12VAC	.33A	5.5mm/2.1mm Coaxial	6	Blk	2-1/2" x 1-3/4" x 1-5/8"	DAE/ CNR-1100	UL	.4	\$0.59	\$0.49(40)
18129-PA	G	24VAC	.83A	3 Pos. Screw	-	Blk	3-3/4" x 2-1/2" x 2-1/8"	APX/AP7095R	UL/RoHS	1.5	\$4.95	----
14175-PA	B	16.5VAC	2.5A	2 Pos. Screw-LED Ind.	-	White	4" x 2-5/8" x 2-1/4"	MG Electronics	UL	1.6	\$7.95	\$7.45
17560-PA	D	18VAC	1.1A	2 Pos. Screw	-	Beige	2-3/8" x 2-1/4" x 2"	AULT	UL	.8	\$3.95	----
12637-PA	B	24VAC	1.6A	2 Pos. Screw-LED Ind.	-	White	4" x 2-5/8" x 2-1/4"	MG Electronics	UL	1.6	\$7.95	\$7.45
17561-PA	F	24VAC	1.66A	2Socket Molex Micro-Fit.	6	Black	3-1/4" x 2-3/4" x 2-1/8"	AULT/T57241667D020G	UL	1.8	\$6.95	----

CHASSIS MOUNT TRANSFORMERS



SELECTING TRANSFORMERS

Volts & Current listed are nominal RMS. Open circuit and loaded values are different. Type of rectifier/filter circuit will effect secondary & output current and they can be very different. Full wave center tap choke input filter: Transformer secondary amps are .7 X required output amps. Full wave center tap cap input filter: Transformer secondary amps are 1.2 X required output amps. For Full wave bridge choke input filter: Transformer secondary amps are = to required output amps. For Full wave bridge cap input filter: Transformer secondary amps are 1.8 X required output amps.



STOCK #	STYLE	INPUT	OUTPUT VOLTS	AMPS	LEADS	DIMN. (L W H)	WT.	1EA	12EA
The following Transformers have a Center tapped secondary allowing use of Half wave, Full wave center tap or Full wave bridge rectifier circuits.									
7838-TR	A	110/220VAC	12VAC (6V-0V-6V)	1A	6"	2-3/4" x 1-1/2" x 1-5/8"	.6	\$2.75	\$2.50
7839-TR	A	110/220VAC	12VAC (6V-0V-6V)	2A	6"	3-1/4" x 2" x 2"	1.3	\$4.95	\$4.25
7840-TR	A	110/220VAC	12VAC (6V-0V-6V)	4A	6"	4" x 2" x 2-1/4"	1.7	\$7.75	\$7.25
7841-TR	A	110/220VAC	18VAC (9V-0V-9V)	1A	6"	3" x 2" x 1-3/4"	.8	\$3.45	\$3.25
7842-TR	A	110/220VAC	18VAC (9V-0V-9V)	1.5A	6"	3-1/4" x 2" x 1-7/8"	1.1	\$4.95	\$4.45
7843-TR	A	110/220VAC	18VAC (9V-0V-9V)	2A	6"	3-1/4" x 2" x 1-7/8"	1.1	\$5.63	\$5.25
7844-TR	A	110/220VAC	24VAC (12V-0V-12V)	2A	6"	3-1/2" x 2-1/4" x 2"	1.4	\$5.75	\$5.49
7845-TR	A	110/220VAC	24VAC (12V-0V-12V)	4A	6"	3-7/8" x 2-1/2" x 2-1/4"	2.3	\$9.49	\$8.95
7846-TR	B	110/220VAC	24VAC (12V-0V-12V)	10A	6"	3-3/4" x 3-5/8" x 3-3/8"	5.5	\$18.95	\$17.49

RFI INLET MODULE



POWER DYNAMICS HGN-365-6M-F1, Flange mount, power inlet/ RFI Filter. Rated: 6A @ 125/250VAC. Standard male 3 blade IEC cord connector and fuse holder. .250 quick connect output terminals, 5 X 20mm type fuse. UL/CSA listed.

STOCK #	DESC.	1EA
18055-FH	6A Power Inlet & RFI Module	\$4.95

SNAP-ON NOISE FILTERS



Fair-Rite P/N 0443167281 ferrite snap-on filters. Plastic case with type 44 split core material. Clamps around cable up to .4in Dia. and blocks noise. Frequencies from 30MHz to 500MHz. Permeability=500, impedance: 125 @ 25MHz/210 @ 100MHz

STOCK #	DESC.	1EA	25+EA
17842-FL	.4" Clam Noise Filter	\$2.49	\$1.95

.5KVA ADJUSTABLE AUTOTRANSFORMER



Input: 110 VAC 50/60Hz
Output: 0-130V @ 500VA (4A)
Specifications/Features: Enclosed, non-isolated, Adjustable transformer Features: Output Volt Meter, lighted Switch, fuse & single 3 blade outlet.
H: 6" W: 4-3/4" D: 6-1/2" WT: 10

STOCK #	DESC.	1EA	6+EA
15162-TR	.5KVA Adj. Transformer	\$49.95	\$43.80

FLAT CABLE NOISE FILTERS



Fair-Rite P/N #0443166651 Snap-On, ferrite filters. Clamps on ribbon cable up to 1.3" wide & up to .05" thick (24-26 conductor). Type 43 material blocks noise frequencies from 1MHz to 100MHz. Permeability=1000, impedance: 77 @ 25MHz 225 @ 100MHz.

STOCK #	DESC.	1EA	10+EA
12799-FL	26 Cond. Noise Filter	\$2.75	\$2.49

TOROID CORE



1" O/D Uncoated toroid. Fair-Rite P/N 5975001301, High Permeability Type 75 MnZn material. Flux Density: 4300 Gauss, Core Constant: 20, Inductance Factor: 3140nH, Effective Path Length: 6.2cm. For Broad-band & Pulse transformers.

STOCK #	DESC.	1EA	10+EA
17609-TC	1" Toroid Core	\$1.49	\$1.25

2KVA ADJUSTABLE AUTOTRANSFORMER



Input: 110 VAC 50/60Hz
Output: 0-130V @ 2KVA (15A)
Specifications/Features: Enclosed, non-isolated, Adjustable transformer Features: Output Volt Meter, lighted Switch, 20A fuse & single 3 blade outlet.
H: 7-1/2" W: 8-3/4" D: 6-7/8" WT: 22

STOCK #	DESC.	1EA	6+EA
15163-TR	2KVA Adj. Transformer	\$104.95	\$93.59

FLAT CABLE NOISE FILTERS



Fair-Rite Snap-On, ferrite filters. Clamps on ribbon cable up to 1" wide & up to .05" thick (20 conductor). Type 43 material blocks noise frequencies from 1MHz to 100MHz. Permeability=1000, impedance: 77 @ 25MHz 225 @ 100MHz. Peel-n-stick mounting tape on back

STOCK #	DESC.	1EA	10+EA
15456-FL	20 Cond. Noise Filter	\$2.25	\$1.89



WATCH

Full 360 Deg. Video of Items displaying these logos On-Line, in our Catalogs & Flyers.

VISIT MPJA.COM AND "SEE" FOR YOURSELF

RFI INLET FILTER



DELTA 06DENG3B-R, Snap-in, power inlet/RFI Filter. Rated: 6A @ 125/250VAC. Standard male 3 blade IEC cord connector. .250 quick connect output terminals, UL/CSA /VDE listed.

STOCK #	DESC.	1EA
18056-FL	6A Delta RFI Module	\$3.95

SMD & THRU-HOLE REWORK STATION



ESD safe, repair/rework station with a hot air head for SMT devices, standard solder iron for touch-up and thru hole use. Features: a fast heating ceramic heater, stable temperature, comfort grip handles easy off connector for soldering iron, interchangeable tips and nozzles for iron & hot air heads. Adjustable air flow, adj. temperature control for air & iron, Temperature range: 100 deg.-500deg. "C". Station Includes: Base unit, soldering iron & stand, Hot air head with 4 nozzles: .09"/.17"/.235"/.34" dia. WT: 11.2

STOCK #	DESC.	1EA
15143-TL	SMD Rework Station	\$169.00
15144-TL	Replacement Iron Handle	\$12.95

SMD STATION NOZZLES



VISIT mpja.com for listing and pictures of QFP/SOP/PLCC nozzles Tips for 15143-TL. Different styles for various uses.

STOCK #	DESC.	1EA
15284-TL	.39" sq. QFP Nozzle	\$27.00
15285-TL	.55" sq. QFP Nozzle	\$27.00
15286-TL	.68" sq. QFP Nozzle	\$27.00
15287-TL	.55" X .78" QFP Nozzle	\$35.00
15290-TL	.17" X .39" SOP Nozzle	\$26.00
15291-TL	.22" X .51" SOP Nozzle	\$26.00
15292-TL	.30" X .59" SOP Nozzle	\$26.00
15293-TL	.30" X .70" SOP Nozzle	\$27.00
15295-TL	.78" X .78" PLCC Nozzle	\$39.00
15297-TL	1.18" X 1.18" PLCC Nozzle	\$44.00

DIGITAL CONTROLLED SOLDER STATION



40W Temperature controlled soldering station with digital temperature control & display, grounded tip, ceramic heater and comfort grip handle. Easy off connector for easy replacement of handle/heater. Adjustable Temperature range: 200 deg. "C" to 480 deg. "C" (392-896 "F"). Fused line. 117 VAC. WT: 4.7

STOCK #	DESC.	1EA
15141-TL	302A Digital Solder Station	\$51.95
15144-TL	Replacement Handle	\$12.95

TEMPERATURE CONTROLLED SOLDER STATION



40W Temperature controlled soldering station with, grounded tip, ceramic heater and comfort grip handle. Easy off connector for easy replacement of handle/heater. Adjustable Temperature range: 200 deg. "C" to 480 deg. "C" (392-896 "F"). Fused line. 117 VAC. WT: 4.5

STOCK #	DESC.	1EA
15140-TL	301 Solder Station	\$39.95
15144-TL	Replacement Handle	\$12.95

REPLACEMENT TIPS



Tips for 15140, 15141 & 15143 soldering stations. Different styles for various uses. WT: .2

STOCK #	DESC.	1EA	10+EA
15146-TL	.8mm Chisel Tip	\$4.95	\$4.49
15148-TL	1.6mm Chisel Tip	\$4.95	\$4.49
15150-TL	3.2mm Chisel Tip	\$4.95	\$4.49
15151-TL	1mm Single Flat Tip	\$4.95	\$4.49
15152-TL	2mm Single Flat Tip	\$4.95	\$4.49
15154-TL	4mm Single Flat Tip	\$4.95	\$4.49
15155-TL	Long Conical Tip	\$4.95	\$4.49
15156-TL	Std. Conical Tip	\$4.95	\$4.49
15157-TL	Conical Fine Tip	\$4.95	\$4.49

SOLDERING STATION



General purpose solder station for the hobbyist. Adjustable from 5 to 50 Watt (800° F max) heat output for repairing PC boards to soldering transformer terminals. Station provides on-off switch, knob to control wattage, built-in stand, tip cleaning sponge & 1/32" point tip. 115 VAC line.

Base L: 5-5/8" X W: 4-9/16" X T: 3-5/8" WT: 1.8

STOCK #	DESC.	1EA	10+EA
15860-TL	Solder Station	\$14.95	\$13.95
15861-TL	Replacement handle	\$4.95	\$4.49

REPLACEMENT TIPS



Tips for 15860-TL ONLY soldering station. Different styles for various uses. WT: .05

STOCK #	DESC.	1EA	10+EA
15862-TL	1/32" Point Tip	\$1.95	\$1.75
15863-TL	1/16" Point Tip	\$1.95	\$1.75
15864-TL	1/8" Flat Tip	\$1.95	\$1.75
15865-TL	1/8" Chisel Tip	\$1.95	\$1.75

BENCHTOP SMOKE ABSORBER



Benchtop smoke absorber with activated carbon filter removes fumes and smoke from work area. ESD safe plastic with metal stand. 115VAC fan with 5ft. cord. Includes 2 filters. (filters should be changed after 30 days of use).

H: 10" W: 7-3/4" D: 4-1/4" WT.: 3.1

STOCK #	DESC.	1EA
15166-TL	Smoke Absorber	\$27.99
15167-TL	Replacement Carbon Filters	\$6.50

ADJUSTABLE ARM SMOKE ABSORBER



Smoke absorber with activated carbon filter removes fumes and smoke from work area. 2 section cantilevered metal arms with 3 joints allows for multi-positions. ESD safe plastic with metal stand. 115VAC fan with 5ft. cord. Includes 2 spare filters (filters should be changed after 30 days of use), 2 fan exhaust deflectors. +-85deg. Arm swing.

H: adj 0-16" from Benchtop WT.: 6

STOCK #	DESC.	1EA
17529-TL	Smoke Absorber	\$39.95
15167-TL	Replacement Carbon Filters	\$6.50

MINI SOLDER SUCKER



Plastic tip and aluminum body. Spring loaded with push button release, with replaceable tip. L: 7-7/8" D: 7/8" WT: .2

STOCK #	DESC.	1EA	5+EA
0041-TL	Mini Solder Sucker	\$3.95	\$2.95
9178-TL	Mini Replacement Tip	\$0.69	\$0.59

ANTISTATIC TIP SOLDER SUCKER



Solder removal tool with Plastic body and Antistatic tip. Spring loaded tool with push button release. L: 11-1/4" D: 15/16" WT: .2

STOCK #	DESC.	1EA	5+EA
15859-TL	Solder Sucker	\$6.95	\$6.49
15858-TL	Replacement Tip	\$2.35	\$1.95

TEMPERATURE CONTROLLED SOLDER STATION



ZD Electronic Tools ZD-929C Temperature controlled soldering station with LED display. Heat sensor located near the tip for fast response and +-10° "F" control. Rated at 48Watts, 24Vac handle. Temperature range: 320° "F" to 800° "F". Isolated tip, fused line. 117 VAC. Extra tips are available for general replacement or special uses. Base L: 6-3/4" X W: 4-3/4" X T: 3-9/16" WT: 4.8

STOCK #	DESC.	1EA	5+EA
15845-TL	LED Solder Station	\$46.95	\$39.95
15846-TL	Replacement Handle	\$6.95	\$6.49

REPLACEMENT TIPS



Tips for 15845-TL ONLY temperature controlled soldering station. Different styles for various uses. WT: .05

STOCK #	DESC.	1EA	10+EA
15849-TL	1/32" Point Tip	\$1.95	\$1.75
15850-TL	1/64" Point Tip	\$1.95	\$1.75
15851-TL	1/8" Flat Tip	\$1.95	\$1.75
15852-TL	1/10" Chisel Tip	\$1.95	\$1.75
15853-TL	1/32" Point Tip	\$1.95	\$1.75

SMD HOT TWEezer ADAPTER



48W. Hot tweezer adapter replaces the soldering iron handle/heater assembly on our 15845-TL station. Removes surface mounted components up to 2.5mm with tip supplied. Other size tips are available.

WT: .5

STOCK #	DESC.	1EA	5+EA
15847-TL	Hot Tweezers Adapter	\$12.95	\$11.49

SMD TWEezer TIP SET



Set of six different size tips for SMD tweezer handle 15847-TL. One pair of 2.5mm, 3.5mm, 5mm, 10mm, 20mm and 30mm wide tips.

WT: .1

STOCK #	DESC.	1EA	5+EA
15848-TL	Hot Tweezer Tip Set	\$5.95	\$5.49

ANTISTATIC SOLDER SUCKER



Antistatic solder removal tool with plastic body and teflon tip. Spring loaded tool with push button release, uses suction to remove solder from circuit board components. L: 13-1/2" D: 1-1/4" WT: .25

STOCK #	DESC.	1EA	50+EA
17220-TL	Solder Sucker	\$5.95	\$4.95
17221-TL	Replacement Tip	\$1.95	\$1.49

SOLDERING IRON



Light weight, 30 watt pencil iron with pointed tip. 4ft, 2 wire line cord. Overall length of iron is 8-1/4". Ideal for general shop use. Available UL listed

L: 8-1/2 WT: .6

STOCK #	DESC.	1EA	5+EA
3027-TL	Non UL Solder Iron	\$2.95	\$1.95
3028-TL	UL Solder Iron	\$4.95	\$4.49

HOT AIR REWORK STATION



Hot air repair/rework station for SMT devices. Features: a fast heating ceramic heater, internal air supply, stable temperature, comfort grip handle, interchangeable hot air nozzles for PLCC/SOP/ etc. devices. Adjustable temperature & air flow. Temperature range: 150 deg.-500deg. "C".

Station Includes 4 nozzles:
 16123-TL QFP 10 X 10 (mm),
 16124-TL QFP 14 X 14 (mm),
 16122-TL Single 2.5mm Dia.,
 16128-TL Single 4mm Dia.

Repair Parts & Other Nozzles Available

WT: 9

STOCK #	DESC.	1EA
16121-TL	SMD Rework Station	\$99.95

REPLACEMENT REWORK STATION PARTS

VISIT mpja.com for pictures of replacement parts for 16121-TL.

STOCK #	DESC.	1EA
17215-TL	Replacement Heater	\$4.95
17216-TL	Replacement Wide Pickup Wire	\$1.49
17217-TL	Replacement Narrow Pickup	\$1.49
17218-TL	Replacement Pickup Handle	\$1.49

HOT AIR STATION NOZZLES



VISIT mpja.com for listing and pictures of QFP/SOP nozzles Tips for 16121-TL. Different styles for various uses.

WT: .2

STOCK #	DESC.	1EA
16122-TL	2.5mm Dia. Nozzle	\$4.95
16123-TL	10mm sq. QFP Nozzle	\$6.95
16124-TL	15mm sq. QFP Nozzle	\$6.95
16125-TL	19 mm sq. QFP Nozzle	\$6.95
16126-TL	15mm X 21mm QFP Nozzle	\$6.95
16127-TL	29mm sq. QFP Nozzle	\$7.95
16128-TL	4.4mm Dia. Nozzle	\$4.95
16129-TL	4.8 X 10mm SOP Nozzle	\$6.95
16130-TL	5.7 X 15mm SOP Nozzle	\$6.95
16131-TL	7.2 X 16mm SOP Nozzle	\$6.95
16132-TL	7.2 X 19mm SOP Nozzle	\$6.95

BUTANE PENCIL TORCH



Hand held pencil torch generates a flame of over 1000° "C" using a butane lighter fuel. Aluminum body with brass valve and burner. Shipped empty due to shipping regulations. Used standard fuel and filler adapter available at most grocery stores

L: 8" Dia: 1/2"

WT: .11

STOCK #	DESC.	1EA	5+EA
7289-TL	Butane Pencil Torch	\$4.95	\$4.25

5 LB. SOLDER



MFG: ALPHA
 P/N: SN60 QQS-571
 Melting Point: 182-191°C/361-376°F
 Dia: .056"/1.4mm

5 lb. spool of 60% Tin/40% Lead, solder with Type RA Energized + rosin flux core. Standard spool for bench top or tool box. For electronic uses.

WT: 5.1

STOCK #	DESC.	1EA
17839-TL	5Lb ALPHA Solder	\$45.95

DESOLDERING IRON



Light weight, 40 watt desoldering iron. Built in solder sucker, 4ft, 3 wire line cord. Overall length of iron is 10-1/2". Ideal for general shop use. 115VAC/40W

L: 10-1/2" WT: .6

STOCK #	DESC.	1EA	10+EA
16922-TL	Desoldering Iron	\$6.95	\$5.95
16923-TL	Replacement Tip	\$1.95	\$1.75

SOLDER BRAID

When placed on a solder connection and heated; this rosin coated copper braid will draw up the melted solder. 1.5m (4.9ft) on a plastic spool. Ideal for PC board repair, field service, etc.



L: 1.5m WT: .2

STOCK #	DESC.	1EA	5+EA
2648-TL	2mm Wide Solder Wick	\$0.65	\$0.59
16433-TL	4mm Wide Solder Wick	\$0.75	\$0.69

LEAD FREE SOLDER

NEW YORK SOLDER "Pure Bond"

Sn/Cu alloy
 Cu: 2.8-3.2%
 Sn: remainder
 Melt Point: 227-250deg. "C"
 .125" Dia. (1/8")
 No Flux core
 For sheet metal joining, plumbing, etc.



STOCK #	DESC.	WT.	1EA
16729-TL	4oz. Wire Solder	.27	\$7.95
16730-TL	8oz. Wire Solder	.54	\$14.95

1 LB. 60/40 SOLDER

1 lb. spool of 20 AWG(1mm/.038mm) 60/40 Tin/Lead, rosin core solder. Standard spool for bench top or tool box. For all electronic uses.



WT: 1.1

STOCK #	DESC.	1EA	5+EA
4457-TL	1Lb 60/40 Solder	\$16.95	\$15.95

LOW LEAD SOLDER

93Sn/7Pb alloy
 Solidus: 183 deg. "C"
 Liquidus: 220 deg. "C"
 1mm/.039" Dia. ~18AWG
 Mildly Activated core
 For general applications requiring slightly higher temperature range than standard 60/40 alloy
 190gm (Approx 110ft.)



WT: .5

STOCK #	DESC.	1EA
17718-TL	Low Lead Wire Solder	\$9.99

SOLDERING IRON STAND

Metal stand for pencil irons. Spring type, 5" X 3-1/4" base with wiping sponge. High temperature thermo-plastic collar to keep iron handle cool.

L: 5" W: 3-1/4" WT: .2



STOCK #	DESC.	1EA	5+EA
4455-TL	Solder Iron Stand	\$4.50	\$3.95

REPLACEMENT SOLDER SPONGE

Spare or replacement sponge for any solder station. 3-3/4" long X 2" Wide, cut to your size requirements.



L: 3-3/4" W: 2" WT: .007

STOCK #	DESC.	1EA	10+EA
16955-TL	Solder Station Sponge	\$0.50	\$0.39

ADJUSTABLE SOLDERING IRON

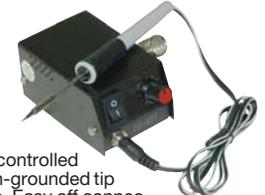


Clear handle, Light weight, adjustable 50 watt pencil iron with a pointed tip. Temp. Range: 200-450 "C". Red LED indicates heater operation. 4ft, 3 wire line cord. Tip is grounded. Overall length of iron is 9". Ideal for general shop use. CE listed.

L: 9-5/8" WT: .5

STOCK #	DESC.	1EA
17517-TL	Adj. 50W Solder Iron	\$12.95
17530-TL	Replacement TIP	\$1.95

MINI SOLDER STATION



8W mini temperature controlled soldering station with un-grounded tip and comfort grip handle. Easy off connector for easy replacement of handle/heater. Adjustable Temperature range: 100 deg. "C" to 450 deg. "C" (212-842 "F"). Fused line. 117 VAC.

L: 4" W: 3" O/A H: 1-7/8" WT: 1.5

STOCK #	DESC.	1EA	10+EA
16924-TL	8W Mini Station	\$12.95	\$11.95

LIGHTED SOLDERING IRON



Light weight, 30 watt pencil iron with a pointed tip and a White LED that illuminates the tip. 4ft, 3 wire line cord. Tip is grounded. Overall length of iron is 9". Ideal for general shop use. CE listed.

L: 9" WT: .4

STOCK #	DESC.	1EA
17516-TL	Lighted Solder Iron	\$5.95
17531-TL	Replacement TIP	\$1.75

30W SOLDERING IRON



Light weight, 30 watt pencil iron with pointed tip. Includes simple stand & Spare Tip. 4ft, 3 wire line cord. Tip is grounded. Overall length of iron is 9". Ideal for general shop use. CE listed

L: 8-1/4" WT: .45

STOCK #	DESC.	1EA
17518-TL	30W Solder Iron/Stand	\$5.95

HANDY TUBE SOLDER



.6 oz (over 8ft.) of .040" rosin cored solder in plastic dispenser tube. For electrical/electronic uses.
 63% Tin
 37% Lead

WT: .057

STOCK #	DESC.	1EA
17462-TL	Tube 63/37 Solder	\$1.28

HANDY TUBE SOLDER



.38oz. (approx 6ft.) .04in 63/37 Tin/Lead, rosin core solder in plastic Handy Tube. For all electronic uses.

WT: .044

STOCK #	DESC.	1EA	10+EA
17148-TL	Tube 63/37 Solder	\$0.99	\$0.89

QUALITY HAND TOOLS



STOCK #	FIG.	DESCRIPTION	FEATURES	USE	WT.	1EA	10+EA
11766-TL	C	5-1/2" Needle Nose Pliers	Spring loaded, Cushioned Grips, Smooth Jaw	Bending Copper or other soft Leads	.2	\$1.95	\$1.75
11714-TL	E	Adj.Cutter/Stripper	Spring Loaded, Cushioned Grips, ScrewdriverAdj.	Adj for AWG 10-30 Wire	.2	\$3.69	\$3.35
11715-TL	F	Precision Strippers	Spring Loaded, Cushioned Grips, Ground Cutting Jaw	AWG 20,18,16,14,12,10	.3	\$6.29	\$5.95
11710-TL	I	Extra Heavy Cable Cutter	Cushioned Grips, Ratchet with Release	Soft Copper & Alum. Wire to 1.75" Dia.	2	\$98.79	\$89.95
11711-TL	-		Replacement Movable Blade for11710-TL		.5	\$32.49	\$29.95
11712-TL	-		Replacement Fixed Blade for11710-TL		.4	\$38.99	\$36.95



STOCK #	FIG.	DESCRIPTION	FEATURES	USE	WT.	1EA	10+EA
3262-TL	L	MOD Plug Crimp Tool	Cushioned Grips, Spring Loaded1 Cavity	Cut, Strip, Crimps RJ-45 Plugs	1	\$7.95	\$6.95
11750-TL	N	DEC MOD Crimp Tool	Cushioned Grips, Ratchet Action 2 Cavity	Cut, Strip, Crimps 2,4,6,8 Position Plugs	1	\$32.95	\$30.95
11751-TL	M	H/D MOD Crimp Tool	Cushioned Grips, Ratchet Action 2 Cavity	Cut, Strip, Crimps 2,4,6,8 Position Plugs	1	\$25.99	\$24.95
15534-TL	O	Machine Tool Contact Crimper	Spring Loaded, 4 Indent Crimp Pattern	20-26AWG wire, D-Sub Barrel Type Contacts	.6	\$34.95	\$32.95
11763-TL	P	Multi Purpose Crimp Tool	Cushioned Grips	14-28AWG wire, Open D-Sub, Lugs	.6	\$9.95	\$7.95
11764-TL	Q	All in One Tool	Cushioned Grips, Cuts 4-40, 6,8,10-32 & 10-24 bolts, Wire Cutter, Crimps Ins. & Non Ins. Terminals		.6	\$5.95	\$5.45
11765-TL	R	All Purpose 8" Pliers	Cushioned Grips, Serrated Nose for Grip, Crimps Terminals for 14-6AWG wire, Strips 18-10AWG		.8	\$17.95	\$16.95

"BEENIE" SPLICES

UY



UR



Standard 2-port UY splices. Provides permanent gas tight connection for 19-26AWG solid conductor wire. Sold in packs of 100pcs.

Standard 3-port UR crimp splices. Provides permanent gas tight connection for 19-26AWG solid conductor wire.

STOCK #	DESC.	1EA	5+EA	WT: .2
14444-TT	100pcs. "UR" Slice	\$12.95	\$10.95	
14445-TT	100pcs. "UY" Slice	\$16.95	\$14.95	

CABLE CUTTER



8" Heavy duty cutter for cutting soft copper wire up to 2/0 or communication cable up to 100 pairs. Not for hard drawn copper wire, steel core or steel supported coax cable.

STOCK #	DESC.	1EA	5+EA	WT: .8
12571-TL	Heavy Cable Cutter	\$10.50	\$9.95	

TAMPER RESISTANT STAR BITS



Used as security fasteners in equipment. 1/4" driver bits fit in ratchets, drills, handles etc. Available in following sets.

A: Tamper resistant Star Sizes:T- 7,8,9,10,15,20, &25

B: Tamper resistant Star Sizes:T-10,15,20,27,30, &40

STOCK #	DESC.	1EA	5+EA	WT: 3
8551-TL	"A" Tamper Star Bits	\$3.95	\$3.49	
8552-TL	"B" Tamper Star Bits	\$3.95	\$3.49	

HEAVY DUTY DIAGONAL CUTTERS



Corrosion resistant
Cushioned dipped vinyl grips
General purpose electrical/craft use
L: 6"

WT: .36

STOCK #	DESC.	1EA
17001-TL	6" H/D Diagonal Cutter	\$2.50

HARDENED SIDE CUTTERS



Hardened Nickle/Chrome Steel,
Cushioned dipped vinyl grips. Hardened to 65 HRC
For hard copper, Brass, Light spring & Stainless steel,
L: 6-1/2"

WT: .5

STOCK #	DESC.	1EA
17916-TL	Ni/Cr Hardened Cutter	\$8.95

6" HEAVY DUTY LONG NOSE PLIERS



Corrosion resistant
Cushioned dipped vinyl grips
Cutter & serrated nose
General purpose industrial/hobby/craft use
L: 6-1/2"

WT: .4

STOCK #	DESC.	1EA
17125-TL	6" H/D Long Nose	\$2.95

MINI CUTTERS



Mini Diagonal cutters with
cushioned dipped vinyl grips,
Box Hinge and leaf springs
General purpose electrical/craft use
L: 4-1/2"

WT: .14

STOCK #	DESC.	1EA
17768-TL	Box Joint Dikes	\$0.99

LONG NEEDLE NOSE PLIERS



Forged Stainless Steel pliers with extra long cushion grip handles. Feature: box joint, flat nose, smooth jaw with spring return. No cutter.
L: 7-3/4"

WT: .31

STOCK #	DESC.	1EA
17919-TL	ExtraLong Nose Pliers	\$2.95

6" CUTTER STRIPPER



Features: Forged cutters with cushion grip handles and 2 holes for wire stripping. Ergonomic cutting angle. Not spring loaded.
L: 6-1/4"

WT: .4

STOCK #	DESC.	1EA
16749-TL	6in. Cutter/Stripper	\$3.95

STAINLESS CUTTERS



Features: Forged stainless steel flush cutters with cushion grip handles & spring return. For copper & aluminum.
L: 4-7/8"

WT: .22

STOCK #	DESC.	1EA
17882-TL	Stainless Flush Cutter	\$6.95

FLAT NOSE PLIERS



Forged, side milled, flat nose, smooth jaw with cushion grip handles & spring return.
L: 5"

WT: .16

STOCK #	DESC.	1EA
17878-TL	5in. Flat Nose Pliers	\$4.95

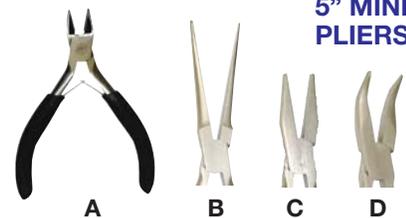
PC BOARD FLUSH CUTTER



Features: Spring Loaded, cutters with cushion grip handles
Use: Trimming PC Board Leads.
L: 5"

WT: .17

STOCK #	DESC.	1EA
16761-TL	5in. Flush Cutter	\$1.75



5" MINI PLIERS

Dropped forged, pliers with leaf springs & cushioned dipped vinyl grips. For cutting or bending soft copper wire and component leads. For fine Jewelry or Electronic work.
L: 4" to 5-7/8"

WT: .15

STOCK #	FIG.	DESC.	1EA	10+EA
16498-TL	A	Diagonal Cutter	\$1.95	\$1.75
17013-TL	B	Long Nose Pliers	\$1.95	\$1.75
17014-TL	C	Needle Nose Pliers	\$1.95	\$1.75
17015-TL	D	Bent Nose Pliers	\$1.95	\$1.75

STAINLESS DIAGONAL CUTTERS



Corrosion resistant Stainless Steel
Cushioned dipped vinyl grips
General purpose electrical/craft use
L: 6-1/4"

WT: .4

STOCK #	DESC.	1EA
17467-TL	6" Stainless Diagonal Cutter	\$2.50

4 1/2" CLOSED HANDLE FLUSH CUTTER



Features: Spring Loaded, cutters with hard plastic handles
Use: Trimming PC Board Leads.
L: 4-7/4"

WT: .1

STOCK #	DESC.	1EA
16747-TL	Closed Handle Cutter	\$2.99

GIANT LONG NOSE PLIERS

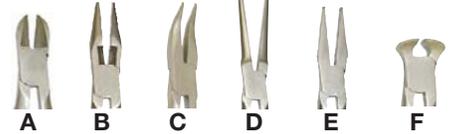


16in long, Drop Forged, Heat treated long nose pliers with cushioned foam grips. front 1" of jaw are serrated. Economy grade for general use.
L: 16"

WT: 1

STOCK #	DESC.	1EA	10+EA
14824-TL	Giant Long Nose Pliers	\$3.95	\$3.75

LONG REACH PLIERS



Nickel plated, dropped forged, long reach pliers with leaf springs & cushioned dipped vinyl grips. For fine Jewelry or Electronic work. Bulk packed.
L: 5-3/8" to 7-1/4"

WT: .2

STOCK #	FIG.	DESC.	1EA	10+EA
15385-TL	A	Diagonal Cutters	\$2.95	\$2.49
15386-TL	B	Serrated Nose Pliers	\$2.95	\$2.49
15387-TL	C	Bent Nose Pliers	\$2.95	\$2.49
15388-TL	D	Long Nose Pliers	\$2.95	\$2.49
15389-TL	E	Flat Nose Pliers	\$2.95	\$2.49
15390-TL	F	End Cutters	\$2.95	\$2.49

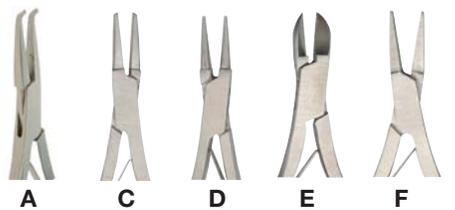
5" MINI PLIERS



Dropped forged, pliers with leaf springs & cushioned dipped vinyl grips. For fine Jewelry or Electronic work.
L: 4" to 5-7/8"

WT: .15

STOCK #	FIG.	DESC.	1EA	10+EA
15392-TL	A	Diagonal Cutter	\$1.95	\$1.75
15395-TL	D	Bent Nose Pliers	\$1.95	\$1.75
15397-TL	F	Flat Nose Pliers	\$1.95	\$1.75
15398-TL	G	Concave Nose Pliers	\$1.95	\$1.75
15400-TL	I	Round Nose Pliers	\$1.95	\$1.75
15401-TL	J	End Cutter	\$1.95	\$1.75



MINI PLIERS

Chrome plated, 5in. mini pliers with leaf springs & cushioned dipped vinyl grips.
For fine Jewelry, or Electronic work

STOCK #	FIG.	DESC.	1EA	10+EA
4980-TL	A	Bent Nose Pliers	\$2.95	\$2.49
4982-TL	C	Needle Nose Pliers	\$2.95	\$2.49
8090-TL	D	Round Nose Pliers	\$2.95	\$2.49
8091-TL	E	Diagonal Cutters	\$2.95	\$2.49
8092-TL	F	Flat Nose Pliers	\$2.95	\$2.49

4.5" MINI PLIERS



Dropped forged, Box Joint pliers with leaf springs & padded grips. For fine Jewelry or Electronic work.

L:	4-1/8" to 5-3/4"	WT:	.13
STOCK #	FIG.	DESC.	1EA
17657-TL	A	Smooth Jaw Needle Nose Pliers	\$1.75
17658-TL	B	Smooth Jaw Bent Nose Pliers	\$1.75
17659-TL	C	Serrated Jaw Long Nose Pliers	\$1.75
17660-TL	D	End Nipper	\$1.75
17661-TL	E	Round End Diagonal Cutter	\$1.75

5" MINI PLIERS



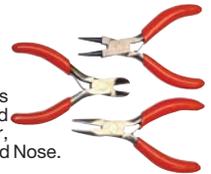
Dropped forged, pliers with leaf springs & cushioned dipped vinyl grips. For fine Jewelry or Electronic work.

L:	4" to 6"	WT:	.15	
STOCK #	FIG.	DESC.	1EA	10+EA
17111-TL	A	Diagonal Cutters	\$1.95	\$1.75
17112-TL	B	Serrated Nose Pliers	\$1.95	\$1.75
17113-TL	C	Bent Nose Pliers	\$1.95	\$1.75
17114-TL	D	Long Nose Pliers	\$1.95	\$1.75
17115-TL	E	Combination Pliers	\$1.95	\$1.75
17116-TL	F	End Cutter	\$1.95	\$1.75

3PCS. MICRO PLIERS

Dropped forged, micro pliers with leaf springs & cushioned grips. Includes: Side cutter, Smooth jaw long nose & Round Nose. For Electronic work.

L:	3"	WT:	.22
STOCK #	DESC.	1EA	
17540-TL	3Pcs. Micro Pliers	\$2.95	



CHINESE ARMY HAMMER

Well not really Army but a Stainless Steel Multi tool that Includes: Claw Hammer, Combo Pliers with Wire Cutter, Large Knife Blade, Flat Blade & Phillips Screwdrivers, Saw, I/Bottle/can opener, File & Fishscaer. Woven belt sheath.

L:	6-1/2"	W:	3-3/8"	T:	7/8"	WT:	1.1
STOCK #	DESC.	1EA					
17543-TL	Multi-Tool with Hammer	\$6.95					



MULTI-TOOL/LIGHT

9-N-1 Stainless Steel Multi tool with wood inlay handles. Includes: White LED Flashlight, Serrated jaw long nose Combo Pliers with Wire Cutter, Large Knife Blade, Phillips Screwdrivers, Bottle opener, AWI, Serrated blade. Woven belt sheath.

L:	6"	W:	1"	WT:	.64
STOCK #	DESC.	1EA			
17586-TL	Multi-Tool with Sheath/Light	\$9.95			



STAINLESS SIDE CUTTERS

Corrosion resistant Stainless Steel Cushioned dipped vinyl grips General purpose electrical/craft use

L:	7-1/4"	WT:	.6
STOCK #	DESC.	1EA	
17469-TL	6" S/S Diagonal Cutter	\$3.50	



STAINLESS DIAGONAL CUTTERS

Corrosion resistant Stainless Steel Cushioned dipped vinyl grips General purpose electrical/craft use

L:	6-1/4"	WT:	.25
STOCK #	DESC.	1EA	
17494-TL	6" Stainless Diagonal Cutter	\$3.50	



STAINLESS BENT NOSE

Corrosion resistant stainless steel. Last 1/2" of nose bent 90deg. Cushioned dipped vinyl grips, leaf springs, General purpose electrical/craft use

L:	6-1/2"	WT:	.3
STOCK #	DESC.	1EA	
17495-TL	Stainless Bentnose Pliers	\$3.50	



6" STAINLESS LONG NOSE PLIERS

Corrosion resistant Stainless Steel Cushioned dipped vinyl grips Side Cutter & serrated nose General purpose industrial/hobby/craft use .

L:	6-1/2"	WT:	.4
STOCK #	DESC.	1EA	
17468-TL	6" Stainless Long Nose	\$2.50	



8" STAINLESS LONG NOSE PLIERS

Corrosion resistant Stainless Steel Cushioned dipped vinyl grips Side Cutter & serrated nose General purpose industrial/hobby/craft use

L:	8"	WT:	.6
STOCK #	DESC.	1EA	
17470-TL	8" Stainless Long Nose	\$3.50	



5-1/2" LONG NOSE PLIERS

Mini long nose pliers with ergonomic formed cushioned dipped vinyl grips, smooth nose, NO Cutter. General purpose industrial/hobby/craft use

L:	5-1/2"	WT:	.17
STOCK #	DESC.	1EA	
17908-TL	Mini Long Nose Pliers	\$1.95	



MULTI-TOOL/HATCHET

Stainless Steel Multi tool that Includes: Hammer, Hatchet, Combo Pliers with Wire Cutter, Large Knife Blade, Flat Blade & Phillips Screwdrivers, Saw, Bottle/can opener, File & Fishscaer. Woven belt sheath.

L:	6-3/8"	W:	3-3/8"	T:	7/8"	WT:	1.1
STOCK #	DESC.	1EA					
17544-TL	Multi-Tool with Hatchet	\$7.95					



STEEL TABLE VISE

Cast steel table vise with smooth jaw. 1-1/8" jaw width 3/4" jaw opening. 7/8" max table thickness. Fixed head.

H:	2" above Table top	WT:	.8
STOCK #	DESC.	1EA	
17890-TL	1-1/8" Steel Table Vise	\$5.95	



60MM MINI TABLE VISE

Cast aluminum table vise. 2-3/8" (60mm) jaw width 1-1/2" jaw opening. 1" max table thickness. Fixed head.

STOCK #	DESC.	1EA	
17500-TL	60mm Aluminum Table Vise	\$5.95	



TABLE VISE WITH DRILL CLAMP

Cast aluminum, 3 In. table vise with adapter, designed to hold a drill. 360 deg. swivel, 90 deg. tilt, 2-1/8" max table thickness, 3-1/4" max jaw opening, Padded Jaw, Rubber pad for top of table. Interchangeable Drill clamp holds up to 1-1/12" Dia. Drill throat.

STOCK #	DESC.	1EA	
17498-TL	Table Visewith Drill Clamp	\$16.95	



ADJUSTABLE ANGLE TABLE VISE

Light/medium duty aluminum table vise has rubber jaw grips & allow +-45° tilt from vertical & 360° swivel. 80mm jaw with swivel ball pivot. Clamps to table/bench up to 2" thick. 2" max jaw opening.

H:	10" O/A	W:	5-7/8"	WT:	4.2
STOCK #	DESC.	1EA	5+EA		
11240-TL	Adj. Table Vise	\$14.95	\$12.95		



DUAL RANGE HEAT GUN



Heat Gun with two heat ranges: 800 Watt or 1500 Watt. With control knob to vary the temperature. Low range 50-200° C, high range 200-500° C. 5ft. 3 wire power cord. 115VAC power. Includes concentrator nozzle attachment. Ideal for heatshrink tubing, paint stripping, plastic fabrication.

L: 10-1/4" W: 2-7/8" H: 8-1/4" WT: 2

STOCK #	DESC.	1EA	10+EA
15857-TL	Heat Gun	\$18.95	\$17.95

NEEDLE FILES



10 piece assortment of hobby needle files in a plastic pouch, you get round, triangular, square and flat files, with various smooth and cutting sides. Work length = 7cm (2.5").

L: 5-1/2" WT: .3

STOCK #	DESC.	1EA	5+EA
2614-TL	10Pc. Needle Files	\$4.50	\$3.95

NEEDLE FILES



10 piece assortment of hobby needle files in a plastic pouch. Includes round, triangular, square, flat files and more with various smooth and cutting sides each with plastic handle. Work length = 7cm (2.5").

L: 5-1/2" WT: .3

STOCK #	DESC.	1EA	5+EA
17535-TL	10Pc. Set Needle Files	\$2.95	

NEEDLE FILES



12 piece assortment of Heat treated HRC60-65 hobby needle files with plastic handles. Includes 2ea. round, 1/2 round, triangular, square, & flat files. Work length = 7cm (2.5").

L: 5-3/4" WT: .5

STOCK #	DESC.	1EA	5+EA
17594-TL	12Pc. Needle Files	\$7.95	

PARALLEL JAW PLIERS



AKA "Fishermans" pliers. 5" long with hardened parallel opening smooth jaws. Cushioned grips. 7/16" max. opening X 1-1/8" depth.

L: 5" W: 6mm (jaw) WT: .3

STOCK #	DESC.	1EA	5+EA
16705-TL	5" Parallel Jaw Pliers	\$3.95	

MINI LOCK GRIP PLIERS



Drop forged jaws, 4-3/4" overall with 1-1/4" long serrated nose, Adjustable locking grip with release.

L: 4-3/4" WT: .23

STOCK #	DESC.	1EA	5+EA
16701-TL	Mini Vise Type Pliers	\$2.65	

MINI LOCKING PLIERS



"Welding" style clamping pliers. Drop forged jaws. 1-1/2" Throat depth, 1" Jaw capacity, 1/2" dia. jaw pads. For welding, soldering or gluing. Adjustable locking grip with release.

L: 4-3/4" WT: .25

STOCK #	DESC.	1EA	5+EA
16707-TL	Mini Welding Pliers	\$2.65	

"TEE" HANDLE HEX KEYS



Plastic "T" handles with Chrome Vanadium steel blades, order S.A.E. or Metric

SAE			Metric		
3/32"	5/32"	5/16"	2mm	4.5mm	8mm
7/64"	3/16"	3/8"	2.5mm	5mm	10mm
1/8"	7/32"		3mm	5.5mm	
9/64"	1/4"		4mm	6mm	

WT: 2.8

STOCK #	DESC.	1EA	5+EA
5676-TL	SAE Hex Key Wrenches	\$7.95	\$6.95
5677-TL	Metric Hex Key Wrenches	\$9.95	\$9.65

6" DIAL CALIPER



6" Dial caliper, graduated in .001in. for both inside & outside measurements. Made from stainless steel. Adjustable & lockable "0" set. Ideal for us who have problem reading those lines on other calipers. Includes padded, hard plastic case.

WT: .78

STOCK #	DESC.	1EA	5+EA
16700-TL	6" Dial Calipers	\$12.95	

6" STAINLESS DIGITAL CALIPER



Digital caliper features selctable Inch or mm range. Hardened stainless steel with plastic cased electronics. For ID or OD measurements. "Zero" button for resetting or setting offsets. 6in/ 150mm Max. .0005"/.01mm accuracy/min. reading. Requires a 357A Button cell (Supplied). Stores in foam lined plastic case.

L: 9-1/4" WT: .7

STOCK #	DESC.	1EA	5+EA
17471-TL	6" S/S Digital Calipers	\$12.95	

HOBBY PICKS



4 piece assortment of double ended steel sharp point, hobby picks. Various shapes with knurled grips.

L: 6-1/2"-7-1/4" WT: .19

STOCK #	DESC.	1EA	5+EA
17917-TL	4Pc. Hobby Steel Picks	\$1.95	

MINI LOCK GRIP PLIERS



Drop forged jaws, 4" overall with 5/8" long serrated jaw designed for gripping circular objects. Adjustable locking grip with release.

L: 4" WT: .3

STOCK #	DESC.	1EA	5+EA
16734-TL	Mini Vise Type Pliers	\$2.99	

LARGE BLADE BOXCUTTER



Large blade boxcutter with plastic handle. Steel blade with 6 "snap-off" sections. Fully retractable.

L: 6-1/2" WT: .08

STOCK #	DESC.	1EA	5+EA
16738-TL	Large Blade Boxcutter	\$0.99	

PLASTIC HANDLE BRUSH SET



Industrial cleaning brush set has 1 each of the following brushes: brass bristle; Nylon bristle; & Stainless steel bristle. Each 7" plastic handle brush has 1/2" long bristles in a 1-3/8" X 5/16" pattern.

L: 7" WT: .18

STOCK #	DESC.	1EA	5+EA
7467-TL	3pc Brush Set	\$1.95	\$1.59

PLASTIC HANDLE UTILITY BRUSHES



Curved handle cleaning brush with 3/4" long Stainless Steel or Brass bristles. Handle color varies.

L: 8" W: 7/8" WT: .1

STOCK #	DESC.	1EA	5+EA
16847-TL	Brass Utility Brush	\$1.20	
16848-TL	Stainless Utility Brush	\$1.20	

5PCS. PRECISION TAMPER PROOF DRIVERS



Quality miniature tamper proof Star driver sets contain T-6, T-7, T-8, T-9 & T-10 sizes. Handles have free spinning finger caps. Plastic handles with Nickel-chrome molybdenum steel bits. Includes plastic storage case.

L: 4-3/8" WT: .18

STOCK #	DESC.	1EA	5+EA
12093-TL	5Pc. T/P Star Drivers	\$6.95	\$5.95

16PC. HOBBY KNIFE SET



Mini precision hobby knife with 13 assorted steel blades. 3 handles with 2 jaw blade lock. Large handle: 3/4" dia X 4-1/4" Aluminum body with plastic grip. Medium handle: 3/8" dia. X 4-1/4" Aluminum. Small handle: 1/4" Aluminum. For matte cutting, wood, plastic & leather carving, scoring & trimming. Includes plastic hinged storage box with magnetic strip for holding blades.

WT: .31

STOCK #	DESC.	1EA	5EA
8246-TL	16pc. Hobby Knife	\$2.95	\$2.49

OFFICE SCISSORS



General purpose scissors feature precision ground, hardened stainless steel blades, plastic handles. Rounded safety nose.

WT: .13

STOCK #	DESC.	1EA	5+EA
17999-TL	6-1/2" Office Scissors	\$0.99	

PRUNING SHEARS



General purpose pruning shears feature precision ground stainless steel blades, spring loaded plastic handles and locking arm. 3/8" max cutting Dia. 1-3/8" cutting length.

L: 8" O/A WT: .26

STOCK #	DESC.	1EA	5+EA
17378-TL	8" Pruning Shears	\$1.69	

MASONRY DRILL SET



4 pc. Industrial type bits with carbide tips for drilling through concrete walls, floors, & blocks. Set contains 1/4" 5/16", 3/8", and 1/2". 1/2" bit is turned to fit 3/8" drill chucks.

L: 12" WT: .9

STOCK #	DESC.	1EA	5+EA
8209-TL	4pc Masonry Drills	\$7.95	\$6.95

39PCS. SAE BIT/SOCKET SET



Magnetic driver handle and 37 bits/sockets in a spill resistant carry box. Includes the following sizes: 1/8" 5/32", 3/16", 1/4" flat blade #0, 1, 2 & 3 Phillips #1, 2 & 3 Square #10, 15, 20, 25, 27, 30, 40 Star 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 5/16" Hex 3/16", 7/32", 1/4", 5/16", 11/32", 3/8", 7/16", 15/32", 1/2" sockets Hex to 1/4" & 1/4" to Hex drive adapters.

L: 1" Bit WT: 1.2

STOCK #	DESC.	1EA	5+EA
12097-TL	39Pc. SAE Driver Bits	\$12.95	\$11.95

30PCS. DRIVER SET WITH TAMPER PROOF STAR BITS



Magnetic driver handle and 28 bits all in a spill resistant carry box. Includes the following sizes: 7, 8, 9, 10, 15, 20, 25, 27, 30 & 40 Tamper resistant Star :5/32", 3/16", 1/4" flat blade, #1, 2 & 3 Phillips; 0, 1, 2 & 3 Square; 5/64", 3/32", 1/8", 5/32", 3/16", 7/32" & 1/4" Hex; Hex to 1/4" & 1/4" Hex drive adapters. Ideal for bench or tool box.

L: 1" Bits WT: .82

STOCK #	DESC.	1EA	5+EA
12086-TL	30Pc. Set/Star Bits	\$24.95	\$22.95

22PCS. DRIVER SET



Mini driver handle and 20 bits all in a plastic box. Includes the following: 1, 1.5, 2, 2.5, 3, 4mm flat blade; #000, 00, 0, 1 Phillips #0, 1 Reed #T5, 6, 7, 8, 9, 10, 15, 20, 25 Star Spinner handle that is extendable by 2-1/2"

L: 1-1/8" Bits WT: .4

STOCK #	DESC.	1EA
17008-TL	Mini Driver & Bits	\$2.95

LONG REACH SCREWDRIVER SETS



Quality miniature screwdriver set contain 3 phillips & 3 flat blade. Ideal for those hard to reach places in VCR, Monitors etc. Hardened carbon steel blades

WT: .3

STOCK #	DESC.	1EA	5+EA
8083-TL	Long Screwdrivers	\$4.95	\$3.49

BE SURE TO CHECK OUR WEB SITE FOR NEW ITEMS & SPECIALS

DOUBLE ENDED TOOL SET



11 Pcs. DriverTool set. Set includes: Double end/right angle non rattaching handle T-10, 15 & 20 bits 5,6,7mm Flat blade bits #1 & 2 Phillips bits #1 & 2 8 pt. Phillips

L: 4-1/4" X 1-3/8" "L" Handle WT: .4

STOCK #	DESC.	1EA	10+EA
15243-TL	Double End Driver	\$8.95	\$7.95

22PCS. POWER BIT SET



Magnetic Hex drive adapter and 20 bits all in a spill resistant carry box. Includes the following sizes: 1/8", 3/16", 1/4" flat blade #1, 2 & 3 Phillips 1, 2 & 3 Square 10, 15, 20, 25, 27, 30 & 40 Star 1/8", 3/16", 7/32" & 1/4" Hex 1/4" X 2-1/2" magnetic bit holder. Ideal for bench or tool box.

L: 1" Bit WT: .44

STOCK #	DESC.	1EA	5+EA
12088-TL	22Pc. Driver Bits	\$7.95	\$6.95

33 PIECE SECURITY BIT SET



Set includes: 8 pc. security HEX 12pc security Torx 4 pc Spanner 4 pc Tri-wing 4 Phillips 1/4" mag. bit holder plastic storage holder

WT: .54

STOCK #	DESC.	1EA	5+EA
12579-TL	Security Bit Set	\$14.99	\$13.75

20PC. DRIVER BIT SET



20pc. driver set contains: 7 sockets: 5,6,7,8,9,10, 11mm 4 Slotted: 2X 4mm, & 2X 7mm 4 Phillips: 2X #0, 2X #2 4 Star: 2X T15, 2X T20 1 Magnetic Bit Holder

L: Bits: 1" Sockets: 1-3/8" WT: .5

STOCK #	DESC.	1EA
17891-TL	20 Pc. Driver Set	\$3.95

CRAFT SCISSORS



General purpose craft scissors feature precision ground, hardened stainless steel blades with one blade serrated, plastic handles. Pointed nose. 1" cutting length.

L: 4-1/4" WT: .07

STOCK #	DESC.	1EA
17656-TL	4-1/4" Craft Scissors	\$0.99

FLEXIBLE GRABBER

Long reach grabber. 18" flexible shaft with spring handle. Push handle and 4 spring steel "fingers" extend out other end. Use to retrieve small parts dropped where you can't put your arm.

L: 23" WT: .12

STOCK #	DESC.	1EA	5+EA
7949-TL	Flex Grabber	\$1.29	\$0.99

37PCS. RACHET SET



Includes, dual function ratchet handle (socket drive & Bit driver), stubby ratchet screwdriver handle, 5-3/4" O/A flex extension, 1/4" X 2-1/2" magnetic bit holder & 33 bits in a spill resistant carry box. Includes the following bits: 1/8", 3/16", 1/4" flat blade: #1, 2 & 3 Phillips 0, 1, 2 & 3 Square; 10, 15, 20, 25, 27, 30 & 40 Star 5/64", 1/8", 3/16", 7/32", 1/4" & 5/16" Hex 3/16", 7/32", 1/4", 5/16" 11/32", 3/8", 7/16", 15/32", 1/2" Sockets & Hex to 1/4" drive adapter

L: 1" Bits WT: 1.5

STOCK #	DESC.	1EA	5+EA
12094-TL	37Pc. Ratchet Set	\$19.95	\$17.95

30PCS. DRIVER BIT SET



Magnetic driver handle and 28 bits all in a spill resistant carry box. Includes the following sizes: 1/8" 5/32", 3/16", 1/4", 9/32 flat blade; #0, 1, 2 & 3 Phillips #1, 2 & 3 Square #10, 15, 20, 25, 30 & 40 Star; 5/64", 3/32", 1/8", 5/32", 3/16", 7/32" & 1/4", 5/16" Hex Hex to 1/4" & 1/4" to Hex drive adapters.

L: 1" Bits WT: .92

STOCK #	DESC.	1EA	5+EA
12096-TL	30Pc. Driver Bits	\$12.95	\$11.95

11PC COMPUTER REPAIR KIT



Basic tool kit Includes: IC extractor, tweezers 1/4" & 3/16" nut drivers, #0 & #1 Phillips 3/16" & 1/8" Flat Blade screwdrivers, T-15 Star driver, 3 prong gripper, 5" X 3/4" [Dia] parts container. Zipper carry case.

WT: .7

STOCK #	DESC.	1EA	5+EA
14053-TL	Computer Tool Kit	\$7.95	\$6.95

STRAP WRENCH



Strap wrenches with plastic handle and rubber strap. Small for use on objects up to 5". Strap is 1/2" wide X 3/32" thick with 5-1/2" long handle. Larger size for objects up to 7". Strap is 3/4" wide X 3/16" thick with 8" handle

Small WT: .25
Larger WT: .55

STOCK #	DESC.	1EA	5+EA
14390-TL	6" Strap wrench	\$2.95	\$2.49
14391-TL	8" Strap Wrench	\$3.79	\$3.25
14455-TL	Both Strap Wrenches	\$5.95	\$4.95

200PCS CABLE TIE & CUTTER



Assortment of multi colored 3" cable ties with a cushion handle cable/tie cutter. Ideal for tagging cables or bundling up wire or cable feeds.

WT: .34

STOCK #	DESC.	1EA	5+EA
12089-TL	200Pc. Cable Ties	\$4.49	\$3.95

11PC. MINI DRIVERS



11pc. driver set contains: 6 flat blade (1, 1.2, 1.4, 1.8, 2.4 & 3mm) 5 mini nut drivers: 3.0, 3.5, 4.0, 4.5, 5.0mm. Free spinning finger caps. Includes a plastic case. Ideal for glasses, watches, or electronics.

L: 3" to 4-1/4" WT: .4

STOCK #	DESC.	1EA
17880-TL	11 Pc. Nut & Screw drivers	\$1.99

STAINLESS STEEL TWEEZERS



6piece assortment of stainless steel tweezers in a plastic pouch. Includes Offset, blunt, flat pointed etc.

L: 4-1/2"-7-1/2" WT: .4

STOCK #	DESC.	1EA	5+EA
14389-TL	6Pc. S/S Tweezers	\$7.95	\$6.95



HEAVY DUTY TWEEZERS

Stainless steel industrial tweezers with fiber grips. Standard pointed nose or bent nose to lower fatigue. Ideal for picking up small components or parts. Squeeze to open.

L: 6-1/2" WT: .08

STOCK #	DESC.	1EA	5+EA
4979-TL	Bent Nose Tweezers	\$1.95	\$1.59
8249-TL	Sright Nose Tweezers	\$1.95	\$1.69

BENT NOSE TWEEZERS



Stainless steel tweezers with the last 3/4" of the pointed tip bent at approx. 45deg. Tip Not serriated.

L: 5" WT: .06

STOCK #	DESC.	1EA	10+EA
17007-TL	Bent Pointed Tweezers	\$2.95	\$2.49

STAINLESS TWEEZERS



Stainless steel, sharp point, industrial tweezers. Available either standard straight or curved for lower fatigue. Ideal for picking up small components or parts.

WT: .08

STOCK #	FIG	DESC.	1EA	10+EA
16039-TL	A	5" Straight Nose	\$2.95	\$2.49
17007-TL	B	5" Curved Nose	\$2.95	\$2.49
17022-TL	C	4-3/8" Straight Nose	\$2.95	\$2.49
17023-TL	D	4-3/8" Cutback Nose	\$2.95	\$2.49
17024-TL	E	5-3/8" Straight Nose	\$2.95	\$2.49

STAINLESS STEEL PICKS



12 piece assortment of double ended stainless steel hobby picks in a plastic pouch. Various shapes with knurled grips.

L: 6-1/2" WT: .6

STOCK #	DESC.	1EA	5+EA
14388-TL	12Pc. S/S Picks	\$6.95	\$5.95

BENT NOSE TWEEZERS



Stainless steel tweezers with the last 3/4" of the tip bent at approx. 30deg. Last 1/2" of tip is serriated.

L: 6-1/4" WT: .05

STOCK #	DESC.	1EA	10+EA
15198-TL	Bent Nose Tweezers	\$0.69	\$0.55

STAINLESS STEEL TWEEZERS



5 piece assortment of stainless steel tweezers in a plastic hanging pouch. Includes: needle, spade, bent, blunt & flat.

L: 4-1/8" to 4-5/8" WT: .15

STOCK #	DESC.	1EA
17538-TL	5Pc. Stainless Tweezers	\$3.95

STAINLESS CHISEL SET



6 piece assortment of stainless steel hobby chisels. For working wood, unfired clay or epoxies. Includes plastic storage pouch.

L: 5-7/8" WT: .33

STOCK #	DESC.	1EA
17613-TL	6 Pc. Set Chisel Set	\$5.95

SHARP POINTED TWEEZERS

Very Sharp pointed Stainless Steel tweezers. Ideal for picking up small components or parts.

L: 4-3/4" WT: .03

STOCK #	DESC.	1EA
17126-TL	Sharp Pointed Tweezers	\$2.95

SPRING HOOK TOOLS



Stainless steel hook style picks used to attach & detach springs and also to untangle jewelry chains. Tip Style "A": last 3/8" bent 60deg. Tip Style "B": last 1/2" reverse bend with 1/2 circle loop

L: 7" WT: .05

STOCK #	DESC.	1EA	10+EA
15236-TL	Spring Hook Tip "A"	\$0.79	\$0.63
15237-TL	Spring Hook Tip "B"	\$0.79	\$0.63

EXAM MIRRORS



Dental style mirrors. 4-1/4 in long steel (NOT STAINLESS) knurled handle. 30 deg. Angled mirror head. 2 diameters available: 25mm & 30mm

L: 6-1/4" O/A WT: .051/.1

STOCK #	DESC.	1EA
17379-TL	25mm Exam Mirror	\$0.69
17380-TL	30mm Exam Mirror	\$0.89

11PC. MINI SCREWDRIVERS



11pc. driver set contains: 5 flat blade (1, 1.4, 2.0, 2.4 & 3mm) 6 mini phillips: 1.4, 1.6, 1.8, 2.0, 2.4, 3.0mm. Free spinning finger caps. Includes a plastic case. Ideal for glasses, watches, or electronics.

L: 3" to 4-1/4" WT: .4

STOCK #	DESC.	1EA
17886-TL	11 Pc. Screwdriver Set	\$1.95

DENTAL MIRROR



Disposable dental mirror. Plastic handle with 3/4" dia mirror. Approx. 30° handle to mirror angle. Ideal tool for examining electronic equipment or do-it-yourself root canals.

L: 6" WT: .02

STOCK #	DESC.	1EA
17907-TL	Disposabe Dental Mirror	\$0.79

POINTED TWEEZERS

Sharp point tweezers with fiber finger grips. Ideal for picking up small components or parts.

L: 6-1/2" WT: .06

STOCK #	DESC.	1EA
17619-TL	Sharp Nose Tweezers	\$1.59

ANTI STAT TWEezer SET

Black Antistatic, non-magnetic, non-marring plastic tweezer set.

1ea as follows:
pointed tip,
1/8" flat jaw tip
1/8" rounded tip
1/4" flat tip



L: 4-3/4" W: 5/16" O/A WT: .08

STOCK #	DESC.	1+EA
17623-TL	4pc. Antistatic Tweezers	\$3.95

HEAVY DUTY TWEEZERS



Dip coated plastic grip industrial tweezers. Serrated bent nose to lower fatigue. Ideal for picking up small components or parts. Squeeze to open.

L: 6-3/4" WT: .09

STOCK #	DESC.	1EA
17618-TL	Bent Nose Tweezers	\$1.95

8 IN 1 PRECISION SCREWDRIVERS

Quality miniature screwdriver set contains 4 double ended hardened steel bits with Phillips on one end & flat blade on other as follows: 000P/2mm, 00P/2.5mm, 0P/3mm, 1P/4mm. Bits store in the plastic handle.



L: 4-3/4" WT: .08

STOCK #	DESC.	1EA
17011-TL	8/1 Mini Screwdrivers	\$1.99

8 IN 1 PRECISION STAR DRIVERS

Quality miniature Star Bit driver set contains 4 double ended hardened steel bits as follows: T-4/T-8, T-5/T-9, T-6/T-10, T-7/T-15. Bits store in the plastic handle.

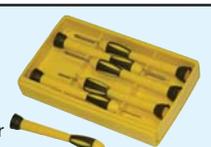


L: 4-3/4" WT: .08

STOCK #	DESC.	1EA
17012-TL	8/1 Mini Star Drivers	\$1.99

7PCS. PRECISION SCREWDRIVERS

Quality miniature screwdriver set contain: 00, 0, 1 Phillips, 1.4mm, 2.4mm, 3.0mm Flat Blade sizes. Handles have free spinning finger caps. Plastic handles with steel bits. Includes slide top plastic storage case.



L: 4-3/8" WT: .32

STOCK #	DESC.	1EA
17010-TL	7Pc. Mini Screwdrivers	\$2.95

MINI DRILL BITS

6 pc set of High Speed Steel drill bits for hobby use. Includes: 0.8mm, 1.0mm, 1.2mm, 1.4mm, 1.6mm, 1.8mm. & Plastic holder.



L: 1-1/8- 1-3/4" WT: .016

STOCK #	DESC.	1EA
17643-TL	6 PC. Mini Drills	\$1.49

PIN VISE

Swivel, Hex head pin vise for holding small drills etc. Double ended collet holds up to 2.4mm dia. shaft. Soft Plastic pouch.



L: 3-7/8" WT: .08

STOCK #	DESC.	1EA
17644-TL	Swivel Head Pin Vise	\$3.95

HOBBY SAWS



Hobby mini saws with cushion grip handles. Flexible tool steel blades with fine teeth (~30/in) for cutting balsa or other soft woods & plastic. Long Blade: 2-5/8" Short Blade: 1-1/2"

L: 6-1/8-7-1/8" WT: .36

STOCK #	DESC.	1EA
17889-TL	Steel Hobby Saws	\$1.95

ROTARY TOOL RASPS

5 pc set of High Speed Steel rasps with 1/8" shaft for hobby wood & Plastic projects. Includes: .27" Dia. Ball, .22" max Dia. Cone, .35" max Dia. Cone, .26" Dia X .52" Cyl, .34" Dia. X .58" Cyl. Plastic storage box. ALL Sizes are Approx.



L: 1-3/4" WT: .15

STOCK #	DESC.	1EA
17642-TL	5 PC. Rotary Rasp Set	\$2.95

MINI SCREWDRIVERS

Miniature screwdriver sets contain 2 Phillips (#0 & #1), 4 flat blade (1.4, 2.0, 2.4 & 3mm) in a plastic case. Free spinning finger caps. Ideal for glasses, watches, or electronics.



WT: .3

STOCK #	DESC.	1+EA	5+EA
2039-TL	Mini Screwdriver Set	\$2.49	\$1.98

RETRIEVING MAGNETS



Magnet assemblies used to hold or retrieve steel objects. Cased magnets with Eye bolt for the attachment of rope, cable or as a hold down +for equipment.

12961-MG up to 40lb	2" X 2" X 1/2"	WT: .43
12962-MG up to 100lb	2" X 2" X 1"	WT: .8
12963-MG up to 150lb	5" X 2" X 1"	WT: 1.8
12964-MG up to 225lb	5" X 2" X 2"	WT: 3.8

STOCK #	DESC.	1EA	5+EA
12961-MG	40lb Retrie. Magnet	\$7.95	\$6.95
12962-MG	100lb Retrie. Magnet	\$10.95	\$8.95
12963-MG	150lb Retrie. Magnet	\$14.95	\$11.95
12964-MG	225lb Retrie. Magnet	\$29.95	\$22.95

PLASTIC PARTS BOXES

Semi transparent, flexible plastic boxes with multiple compartments. For screws, fish hooks, LED's, Transistors, Resistors etc. 6-1/8" L X 3-1/2" W X 1-1/8" D overall.

A: 12 compartments: All measure 7/8" wide X 1-3/8" long X 7/8" deep.
B: 10 total compartments: 2 measure 7/8" wide X 2-3/4 long X 1" deep. 8 measure 7/8" W X 1-3/8" L X 1" D

L: 6-1/8" W: 3-1/2" T: 1-1/8" WT: .17

STOCK #	DESC.	1EA	10+EA
6479-BX	12 Compartment Box	\$1.85	\$1.69
5994-BX	10 Compartment Box	\$1.75	\$1.59

PLASTIC PARTS BOX

Semi transparent, flexible plastic box with multiple compartments. For screws, fish hooks, LED's, Transistors, Resistors etc. Latch holds lid closed.

5 compartments that run length of box: 3 measure 7/8" L X 6-3/4" long X 3/4" deep. 2 others are 7/8" wide X 3-3/8" long.

10 compartments that all measure 1-5/16" wide X 1-11/16" long X 3/4" deep.

L: 7" W: 3-3/4" T: 1-1/4" WT: .14

STOCK #	DESC.	1EA
17614-BX	5 Compartment Box	\$2.59
17616-BX	10 Compartment Box	\$1.99

PLASTIC PARTS BOX

Hard, clear plastic box with multiple compartments. For screws, fish hooks, LED's, Transistors, Resistors etc.

18 compartments measure 1-1/4" sq. X 1-1/8" deep.

L: 8-1/4" W: 4-1/4" T: 1-3/8" WT: .34

STOCK #	DESC.	1EA	25+EA
16042-BX	Small 18 Comp. Box	\$1.95	\$1.49

PLASTIC PARTS BOX

Semi transparent, flexible plastic box with multiple compartments. For screws, fish hooks, LED's, Transistors, Resistors etc.

5 compartments that run width of box: all measure 1-5/16" wide X 3-1/2" long X 3/4" deep. Latch hold lid closed.

L: 7" W: 3-3/4" T: 1-1/4" WT: .14

STOCK #	DESC.	1EA
17615-BX	5 Short Compartment Box	\$1.99

HANDLE MAGNETS



Magnet assemblies used to hold or retrieve steel objects. Cased magnets with metal handle

12956-MG up to 25lb	1-1/16" X 3/4" X 2"	WT: .22
12957-MG up to 50lb	2" X 3/4" X 2"	WT: .4
12958-MG up to 100lb	4" X 1/2" X 2"	WT: .75
12959-MG up to 150lb	5" X 2" X 5-1/2"	WT: 2.4
12960-MG up to 225lb	5-1/4" X 2" X 4-1/2"	WT: 4.6

STOCK #	DESC.	1EA	5+EA
12956-MG	25lb Handle Magnet	\$5.95	\$4.95
12957-MG	50lb Handle Magnet	\$7.95	\$6.95
12958-MG	100lb Handle Magnet	\$10.95	\$8.95
12959-MG	150lb Handle Magnet	\$17.95	\$13.95
12960-MG	225lb Handle Magnet	\$34.95	\$26.95

DESK LAMP & MAGNIFIER

Adjustable desk/bench lamp with 5" dia, 3 diopter lens. 8" Circular "Cool White" fluorescent lamp surrounding the lens. 2 metal arms with 3 joints allows for multi-positions. Max parallel surface elevation approx. 11". Approx. 5.5" Max. Forward extension. 6ft. 115VAC cord, power switch on lamp head. Ideal for collectors, jewelers, electronic repairs. UL Listed



WT: 15

STOCK #	DESC.	1EA
17598-TL	Slide Arm Lamp/Magnifier	\$59.95

DESK LAMP & MAGNIFIER

Adjustable desk/bench lamp with 3-1/2" dia, 3.5X lens. Circular "Cool White" fluorescent lamp surrounding the lens. Sliding arm & 2 joints allows for multi-positions. Max parallel surface elevation approx. 12". 6ft. 115VAC cord, power switch on base. Ideal for collectors, jewelers, electronic repairs.



WT: 2.9

STOCK #	DESC.	1EA
17926-TL	3.5X Desk Lamp/Magnifier	\$17.95

DESK LAMP & MAGNIFIER

Adjustable desk/bench lamp with 3-1/4" dia, 5X lens. Circular "Cool White" fluorescent lamp surrounding the lens. 10in. "goose neck" allows for multi-positions. 6ft. 115VAC cord, power switch on base. Ideal for collectors, jewelers, electronic repairs.



WT: 2.6

STOCK #	DESC.	1EA
16518-TL	Desk Lamp/Magnifier	\$19.95

DESK LAMP & MAGNIFIER

Adjustable desk/bench lamp with 4" dia, 2X lens. Circular "Cool White" fluorescent lamp surrounding the lens. 2 joint arm allows for multi-positions. Max parallel surface elevation approx. 13". 6ft. 115VAC cord, power switch on base. Ideal for collectors, jewelers, electronic repairs.



WT: 3.1

STOCK #	DESC.	1EA
17663-TL	Desk Lamp/2X Magnifier	\$24.95

DESK LAMP & MAGNIFIER

Adjustable desk/bench lamp with 3-1/4" dia, 5X lens. Circular 60 White superbrite LEDs surrounding the lens. 10in. "goose neck" allows for multi-positions. 6ft. 115VAC cord, power switch on base. Ideal for collectors, jewelers, electronic repairs.



WT: 2.9

STOCK #	DESC.	1EA
17927-TL	White LED Lamp/Magnifier	\$29.95

DESK MAGNIFIER

2.5X magnifier with fully articulated neck, 90 X 45mm rectangular graded plastic lens. Lighted by 3 white LEDs mounted in on end. Slide power switch on top face. 4-3/4" Dia. Base, 5-1/4" X 3-3/4" lens assembly. Max neck height: 9in. Requires 2 "AAA" batteries (Not Included).



WT: 1.6

STOCK #	DESC.	1EA
17493-LN	LED Lighted Magnifier	\$6.95

LIGHTED BINOCULAR MAGNIFIERS



Lighted magnifier with adjustable headband & 3 levels of magnification. 1st. level is 2.2X, 2nd. lens folds down to increase magnification to 3.3X, 3rd. Lens rotates down over Right eye to increase magnification to 4.8X. White LED on each side provide additional light. 2 "AAA" batteries (4 total) required (Not Supplied) for each LED. Each LED has power switch. Do not interfere with eyeglasses, & flip up out of the way without removing from head.

WT: .6

STOCK #	DESC.	1EA
16704 -TL	Lighted Visor Magnifier	\$4.95

BINOCULAR MAGNIFIERS



5X magnifier with adjustable padded headband. Optical grade Acrylic lens. Do not interfere with eye or safety glasses. Flip up out of the way without removing from head. Made in USA.

WT: .41

STOCK #	DESC.	1EA
17653-TL	USA Binocular Magnifier	\$12.95

2.5X BINOCULAR MAGNIFIERS



Professional OVP, 2.5X magnifier with adjustable padded headband. 8in. Focal length. Optical glass lens. Do not interfere with eye or safety glasses. Flip up out of the way without removing from head. Made in USA.

WT: .55

STOCK #	DESC.	1EA
17654-TL	OVP 2.5X Binocular Magnifier	\$49.95

TABLE TOP MAGNIFIER



5X magnifier with glass lens & plastic base. 2-1/2" X 1-7/8" lens. Base open on 1 side. Ideal for stamps, coins or jewelry work.

W: 3-3/16" D: 2-5/8" H: 2-7/8"

WT: .7

STOCK #	DESC.	1EA
16703-LN	Table Top Magnifier	\$2.50

DUAL LENS MAGNIFIER



10X Plastic eye loupe with dual lens. Removable lower lens for less mag. but wider field. Used to do watch & jewelry repair, and to check circuit boards.

Dia:1-1/2" T: 1-1/2"

WT: .03

STOCK #	DESC.	1EA
17283-LN	Dual Lens Eye-Loupe	\$1.95

DESK TOP MAGNIFIER



Adjustable desk/bench magnifier with 4.5" dia. 2X lens. 10in. "goose neck" allows for multi-positions. Ideal for collectors, jewelers, electronic repairs.

WT: 2.2

STOCK #	DESC.	1EA
16725-LN	Desk Top Magnifier	\$9.95

GIANT FOLDING LENS



Folding magnifier with a quality 4" Dia. glass lens. 7" tall when open & 1-5/8" folded. 6-1/2" X 5-1/4" open bottom has inch/cm scales. Ideal for collectors, jewelers, electronic repairs.

L: 6-1/2" W: 5-1/4" T: 7" WT: 1

STOCK #	DESC.	1EA	5+EA
0079-LN	Giant Folding Lens	\$6.95	\$5.95

SMALLER FOLDING LENSES



Smaller and more compact than our Giant lens, these folding magnifiers have open bottom with inch/cm scales. Ideal for collectors, jewelers, electronic repairs. 14042-LN 4-1/8" tall open X 3/4" folded. 3-5/8" X 3-1/4" Base 14043-LN 5" tall open X 1" folded. 3-5/8" X 4-1/4" Base

WT: .16

WT: .3

STOCK #	DESC.	1EA	5+EA
14042-LN	Small Folding Lens	\$1.95	\$1.39
14043-LN	Medium Folding Lens	\$2.49	\$1.69

FOLDING POCKET MAGNIFIERS



Folding 10X magnifier. Folds into 3-1/2" x 2-1/2" protective case. Ideal for school, or reading the fine print on your insurance.

L: 3-1/2" W: 2-1/2"

WT: .3

STOCK #	DESC.	1EA	5+EA
8251-LN	Folding Magnifier	\$5.95	\$4.95

EYE LOUPE MAGNIFIERS



Plastic eye loupes used to do watch & jewelry repair, and to check circuit boards.

Dia:1-1/2" T: 1-1/4"

WT: .03

STOCK #	DESC.	1EA	5+EA
7430-LN	2.5X Eye Loupe	\$1.95	\$1.49
7433-LN	10X Eye Loupe	\$1.95	\$1.49

MAGNIFIER SET



12 Pc. set of Magnifiers with Metal handles & glass lens. Perfect for schools, Labs, Retail. Includes 4pcs. each as follows: 10X 2in. Dia. X 5" long 8X 2.5in. Dia. X 5-3/4" long 6X 3in. Dia. X 6-1/2" long. Includes plastic counter top stand

WT: 3.6

STOCK #	DESC.	1EA
17537-LN	Metal Handle Magnifier Set	\$19.95

MULTI MAGNIFIER



Round, Plastic magnifier with 8 different magnifications (5X-12X). Internal wheel rotates to expose the different lenses.

Dia: 3-1/2" T: 3/4"

WT: .2

STOCK #	DESC.	1EA	5+EA
15195-LN	Multi Magnifier	\$3.95	\$3.25

LIGHTED HELPING HANDS



Versatile tool with cast iron base, 2 alligator clips on a cross arm, that move & adjust, a 3-1/2in. 2X magnifier illuminated by 2 Superbrite LEDs and a soldering iron stand. Leaving your hands free. Requires 3 "AAA" cells (Not included)

H: 6-3/4"

WT: 1.7

STOCK #	DESC.	1EA
17932-TL	Lighted/Mag.Helping Hands	\$9.95

HELPING HANDS



A must for circuit board, model or jewelry work, cast iron base with 2 alligator clips on a cross arm, move & adjust every which way, leaving your hands free, also available with 2-1/2" dia. magnifying lens.

H: 6"

WT: 1.4

STOCK #	DESC.	1EA	5+EA
1006-TL	Helping Hands no Lens	\$4.00	\$3.75
3628-TL	Helping Hands & Lens	\$5.50	\$4.95

LARGE HELPING HANDS



Round cast iron base with 3-1/2" dia. glass magnifying lens, 2 alligator clips on a cross arm. Move & adjust every which way, leaving your hands free, A must for circuit board, model or jewelry work.

H: 8-1/2"

WT: 1.4

STOCK #	DESC.	1+EA
16037-TL	Helping Hands & Lens	\$5.95

TWEEZERS WITH MAGNIFIER



Stainless steel tweezers with attached 3X magnifier. Ideal for sorting small parts etc. Folds to only 3/8" thick

L: 3-5/8" W: 1-1/4"

WT: .05

STOCK #	DESC.	1EA	5+EA
9186-TL	Tweezer/ Magnifier	\$1.95	\$1.49

CURVED HANDLE MAGNIFIERS



Magnifiers with curved plastic handles. 3.5X Magnification

L: 5-3/4" / 6-1/2" / 7-1/8" / 8-7/8"

STOCK #	DESC.	WT:	1+EA
17485-LN	2in. Dia. Handle Magnifier	.11	\$0.50
17486-LN	2.5in. Dia. Handle Magnifier	.18	\$0.65
17487-LN	3in. Dia. Handle Magnifier	.23	\$0.95
17488-LN	4in. Dia. Handle Magnifier	.46	\$1.50

LIGHTED MAGNIFIER



Handheld 2X magnifier with plastic case and 3in. X 3in. glass lens. Lens tilts 30deg. 1 White LED in each corner of lens. Requires 2 "AA" cells (Not Supplied). Slide switch on top.

L: 8-3/4"

WT: .6

STOCK #	DESC.	1EA
17536-LN	Lighted Hand Magnifier	\$3.95

LIGHTED HAND MICROSCOPE

30X hand held magnifier with adj. focus and light source. Requires 2 "AA" cells (not included). Black plastic case with clear plastic end for added illumination. Soft plastic carry pouch.

L: 5-3/8" W: 1-7/8" T: 15/16" WT: .18

STOCK #	DESC.	1EA
16813-OP	Handheld Microscope	\$4.95



LIGHTED MAGNIFIER

Close focus (35mm) Handheld 15X magnifier with plastic case and glass circular lens. Dual White LEDs, Requires 3 "AAA" cells (Not Supplied). Slide switch on top. Soft protective pouch.

L: 5-1/4" WT: .13

STOCK #	DESC.	1EA
17929-LN	Hand Held 15X Magnifier	\$9.95



LED MULTI-LIGHTS

2 pack of, Multi-Mount mini" flashlights. Hook-n-loop straps for your finger and wrist, and clips for books, visor etc. White LED uses 3 replaceable AG10 coin cells (Included). Slide switch on top.

L: 1-3/4" (Body) WT: .11

STOCK #	DESC.	1EA
17183-OP	2 pack Multi Flashlights	\$1.95



LIGHTED POCKET MAGNIFIER

Pocket magnifier with a white mini LED for illumination. Requires 2 "AAA" cells (not supplied.) Ideal for collectors, jewelers, electronic repairs.

L: 3-5/8" W: 1-1/8" T: 5/8" WT: .07

STOCK #	DESC.	1EA
16517-LN	Lighted Pocket Magnifier	\$1.95



LIGHTED EYE LOUPE

10X power, plastic eye loupe with a super brite white LED. Uses single Coin Cell (included).

L: 1-3/8" WT: .06

STOCK #	DESC.	1EA
17651-LN	Lighted Eye Loupe	\$2.49



LIGHTED MAGNIFIER

Close focus (35mm) Handheld 10X magnifier with plastic case and plastic circular lens. Required 2 "C" cells (Not Supplied). Replaceable incandescent bulb. Slide switch on top.

L: 8" WT: .3

STOCK #	DESC.	1EA
17491-LN	Hand Held Magnifier	\$3.50



MINI LIGHTED MAGNIFIER

Pocket magnifier with 2 white mini LED for illumination. 20X magnification. Slide action switch. Uses 3 "LR927" coin cells (supplied). Includes mini spallor to access batteries & Padded plastic box. Ideal for collectors, jewelers, electronic repairs.

L: 1-7/8" W: 1" T: 1" WT: .23

STOCK #	DESC.	1EA
17593-LN	Mini Lighted Magnifier	\$7.95



LIGHTED POCKET MAGNIFIER

Pocket magnifier with a white mini LED for illumination. 10X magnification. Alternate action switch. Uses 3 "LR1130" coin cells (supplied.) Includes mini screwdriver & Padded plastic box. Ideal for collectors, jewelers, electronic repairs.

L: 2-3/4" W: 1-1/4" T: 7/8" WT: .24

STOCK #	DESC.	1EA
17592-LN	Lighted Pocket Magnifier	\$4.92



LIGHTED MAGNIFIER

3X power, pocket sized, plastic magnifier with a super brite mini white LED. Uses single Coin Cell (included).

L: 3-3/8" W: 2-1/4" T: 5/16" WT: .073

STOCK #	DESC.	1EA
17652-LN	Lighted Card Magnifier	\$1.95



UV/WHITE LED FLASHLIGHT LASER POINTER

LED "Stubby" flashlight with 4 White super bright LEDs, 4 Ultra Violet LEDs and a Red LASER pointer. Titanium colored aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). 4 Step Alternate action push button switch on side (ON White LEDs only/ON UV LEDs only/ON LASER only/OFF. Includes 2" strap and soft belt pouch. NOTE: CLASS IIIA Laser <5mW. Do not shine into eyes! DO NOT EXPOSE Eyes or Skin to UV Light!

L: 4-1/2" WT: .23

STOCK #	DESC.	1+EA
17645-TL	UV/White LED Flashlight/LASER	\$12.95



UV FLASHLIGHT

Medium duty LED "Stubby" UV flashlight. 8 ULTRA-VIOLET LEDs in aluminum case for corrosion resistance. Fixed focus lens. Requires 3 "AAA" cells (not supplied). Alternate action push button switch on back end. Includes 4" strap. For currency examination, chemical analysis, gem identification etc.

L: 4" WT: .28

STOCK #	DESC.	1+EA
17346-TL	8 LED UV Flashlight	\$12.95



9 LED STUBBY FLASHLIGHT

Medium duty LED "Stubby" flashlight. 9 White super bright LEDs in aluminum case for corrosion resistance. Requires 3 "AAA" cells (not supplied). Alternate action push button switch on back end. Includes 4" strap.

L: 3-3/4" WT: .17

STOCK #	DESC.	1+EA
17317-TL	"Stubby" Flashlight	\$4.95



MULTI BIKE LIGHT

Bike light with White super bright LED in plastic case. Includes a handle bar mount and a head band mount. 4 position push button switch: (LOW, HIGH, STROBE, OFF). Requires 3 "AAA" cells (Not supplied)

L: 4" O/L" W: 2-3/4" WT: .37

STOCK #	DESC.	1+EA
17377-TL	LED Bike/Head Light	\$6.95



LIGHTED MAGNIFIER

Pocket magnifier with white mini LED illumination. 10X magnification, 21mm focal length. Glass triplet lens in aluminum housing. Slide action switch. Uses 3 "LR927" coin cells (supplied.) Includes mini spanner to access batteries & leather case. Ideal for collectors, jewelers, electronic repairs.

L: 1-7/8" W: 1" T: 1" WT: .2

STOCK #	DESC.	1EA
17966-TL	Lighted Pocket Magifier	\$16.95



GOOSENECK LED LIGHT

Mini LED flashlight. Single White super bright LED at the end of a 4-1/2" flexible metal "Gooseneck". Aluminum case holds 3 type AG13 "button" cells (supplied). Alternate action push button switch on side. Set includes key chain and removable pocket clip.

L: 2-1/4" (Body) DIA: 9/16" (Body) WT: .26

STOCK #	DESC.	1+EA
15996-TL	LED Gooseneck Light	\$3.95



SOLAR FLASHLIGHT

Solar charged flashlight. 5 White super bright LEDs in plastic case with a .22W Solar Panel. 6hr. exposer to sun charges 2 "AAA" NI-MH cell for up to 3hr. of light. Includes small compass in handle and power switch on side.

L: 6" WT: .2

STOCK #	DESC.	1+EA
17381-TL	5 LED Solar Flashlight	\$4.95



LED FINGERLIGHT

4 pack of Unique, "finger" flashlights that straps to your finger, pen & tools with a hook-n-loop strap. White LED uses 3 replaceable AG10 coin cells (Included). Slide switch on top. Assorted body colors.

L: 1-5/8" WT: .1

STOCK #	DESC.	1EA
16711-TL	4 pack Finger Flashlights	\$2.95



9 LED FLASHLIGHT

Light duty LED "Stubby" flashlight. 9 White super bright LEDs in shiny aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). Alternate action push button switch on back end. Includes 2" strap.

L: 3-1/4" WT: .08

STOCK #	DESC.	1+EA
17018-TL	9 LED Stubby Flashlight	\$1.95



9 LED FLASHLIGHT

Light duty LED "Stubby" flashlight. 9 White super bright LEDs in natural colored aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). Alternate action push button switch on back end. Includes 2" strap.

L: 3-1/4" WT: .08

STOCK #	DESC.	1+EA
17041-TL	9 LED Stubby Flashlight	\$1.95



"MINERS" LIGHT

Head mounted "Miners" light with 3 White ultra bright LEDs in plastic case. Elastic headband & adjustable padded forehead plate. 3 position push button switch: (ON, STROBE, OFF). Requires 3 "AAA" cells (Not supplied)

L: 4" O/L" W: 2-3/4" WT: .22

STOCK #	DESC.	1+EA
17650-TL	Ultra LED Head Light	\$2.49



3 LED FLASHLIGHT



Light duty LED "Stubby" flashlight. 3 White ultra bright LEDs in titanium colored aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). Alternate action push button switch on back end. Includes 2" strap.

L: 3-1/4" WT: .07

STOCK #	DESC.	1+EA
17649-TL	3 Ultra LED Stubby Flashlight	\$1.95

WHITE FLASHLIGHT LASER POINTER



LED "Stubby" flashlight with 8 White super bright LEDs and a Red LASER pointer. Titanium colored aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). 3 Step Alternate action push button switch on side (ON LED only /ON LASER only/OFF. Includes 2" strap and soft belt pouch. NOTE: CLASS IIIA Laser <5mW. Do not shine into eyes!

L: 4-1/2" WT: .32

STOCK #	DESC.	1+EA
17475-TL	White LED Flashlight/LASER	\$3.95

GREEN/WHITE FLASHLIGHT LASER POINTER



LED "Stubby" flashlight with 4 White super bright LEDs, 4 Green Super bright LEDs and a Red LASER pointer. Titanium colored aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). 4 Step Alternate action push button switch on side (ON White LEDs only/ON Green LEDs only/ON LASER only/OFF. Includes 2" strap.

NOTE: CLASS IIIA Laser <5mW. Do not shine into eyes!
L: 4-1/2" WT: .2

STOCK #	DESC.	1+EA
17911-TL	G/W LED Flashlight/LASER	\$5.95

8 LED FLASHLIGHT



Medium duty LED "Stubby" flashlight. 8 White super bright LEDs in aluminum case for corrosion resistance. Fixed focus lens. Requires 3 "AAA" cells (not supplied). Alternate action push button switch on back end. Includes 4" strap.

L: 4" WT: .18

STOCK #	DESC.	1+EA
15984-TL	8 LED Stubby Flashlight	\$7.95

30 LED WORKLIGHT



Rechargeable round style worklight with 30 super bright white LEDs. Approx. 3hr. run time on full charge. Plastic hook on top for hanging. Push button switch on base. Includes UL listed AC charger pac

L: 11-1/4" WT: 1.3

STOCK #	DESC.	1EA
16743-TL	30 LED Rechargeable Worklight	\$24.95

MINI SUPERBRIGHT FLASHLIGHT



Flashlight with a single White super bright white LED. Black, plastic case. Fixed focus lens & reflector. Requires 1 "AAA" cell (Not supplied). Alternate action push button switch on back. Includes 4" strap.

L: 3-5/8" D: 13/16" WT: .08

STOCK #	DESC.	1+EA
17482-TL	Superbright Plastic Flashlight	\$1.95

2W SUPERBRIGHT FLASHLIGHT



Heavy Duty Flashlight with a single 2W CREE White super bright white LED Rated 70Lumens. Black, water resistant machined aluminum case. Fixed focus lens & reflector. Requires 2 "AA" cells (Not supplied). Alternate action push button switch on back. Includes belt pouch.

L: 6-1/4" D: 1-5/8" WT: .34

STOCK #	DESC.	1+EA
17912-TL	Heavy Duty 2W LED Flashlight	\$14.00

3W SUPERBRIGHT FLASHLIGHT



Heavy Duty Flashlight with a single 3W CREE White super bright white LED Rated 100-120Lumens. Black, water resistant machined aluminum case. Fixed focus lens & reflector. Requires 3 "AA" cells (Not supplied). Alternate action push button switch on back. Includes belt pouch.

L: 8-1/4" D: 1-7/8" WT: .48

STOCK #	DESC.	1+EA
17766-TL	Heavy Duty 3W LED Flashlight	\$24.95

5W SUPERBRIGHT FLASHLIGHT



Heavy Duty Flashlight with a single 5W CREE White super bright white LED Rated 160-180 Lumens. Black, water resistant machined aluminum case. Fixed focus lens & reflector. Requires 2 "D" cells (Not supplied). Alternate action push button switch on side. Includes belt pouch.

L: 9-3/8" D: 2-5/16" WT: 1

STOCK #	DESC.	1+EA
17767-TL	Heavy Duty 5W LED Flashlight	\$39.95

"HIKER" HEADLIGHT



Forehead mounted "HIKER/BIKER" light with 5 White plus 3 Red ultra bright LEDs in plastic case with coil cord to battery pack on back of head. Adjustable Elastic headband. 4 function push button switch: (Off, 5 White lighted, 3 Red lighted or 3 Flashing Red. Rear battery pack contains a small Red LED with ON/OFF/Flash switch (don't count on this being seen very far). Requires 3 "AA" cells (Not supplied)

L: 2-1/4" O/L" (Head pc.) WT: .3

STOCK #	DESC.	1+EA
17922-TL	LED Bike/Hike Light	\$6.95

RED/WHITE FLASHLIGHT LASER POINTER



LED "Stubby" flashlight with 4 White super bright LEDs, 4 Red Super bright LEDs and a Red LASER pointer. Titanium colored aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). 4 Step Alternate action push button switch on side (ON White LEDs only/ON Red LEDs only/ON LASER only/OFF. Includes 2" strap.

NOTE: CLASS IIIA Laser <5mW. Do not shine into eyes!
L: 4-1/2" WT: .32

STOCK #	DESC.	1+EA
17474-TL	Color LED Flashlight/LASER	\$4.95

EMERGENCY RADIO



Unique Hand crank Radio/Flashlight/Siren. Turning the Hand crank for 1 minute will power the Radio/Siren or light for up 90 minutes. Switch selection of 1 or 3 Superbright white LEDs. Std. AM/FM Radio with telescoping Antenna. 1/8" jack for headphones (Not Included)

L: 7-1/2" WT: .7

STOCK #	DESC.	1EA
17646-TL	Emergency Radio/Light	\$19.95

KEYCHAIN FLASHLIGHT



Small flashlight is only an 1.75in long. Contains a super bright White LED and battery. Just squeeze to light, replaceable battery last for years. Always have a light with your keys, never be in the dark again.

L: 1.75" W: .75" H: .3" WT: .026

STOCK #	DESC.	1+EA
17590-TL	Keychain Flashlight	\$1.95

MINI SUPERBRIGHT FLASHLIGHT



Flashlight with a single White super bright white LED. Black, water resistant machined aluminum case. Fixed focus lens & reflector. Requires 1 "AA" cell (supplied). Alternate action push button switch on back. Includes 6" strap. Battery included in light, Remove battery protective cover before operation.

L: 3-3/4" D: 13/16" WT: .11

STOCK #	DESC.	1+EA
17587-TL	Superbright Mini Flashlight	\$4.95

16 LED CAMP LIGHT



Compact camp or emergency lantern features 16 Superbrite white LEDs, Handle with hook, and a compass on the top. Requires 4 "C" cells (not included)

H: 8-3/8" (Ex. Handle) WT: 1

STOCK #	DESC.	1EA
17647-TL	16 LED Camp Lantern	\$11.95

28 LED FLASHLIGHT



LED flashlight with 28 White super bright LEDs. Titanium colored aluminum case. Fixed focus lens. Requires 3 "AAA" cells (not supplied). Alternate action push button switch on back. Includes 2" strap and soft belt pouch.

L: 4-1/4" Dia: 1-3/4" O/A WT: .34

STOCK #	DESC.	1+EA
17476-TL	28 LED Flashlight	\$5.95

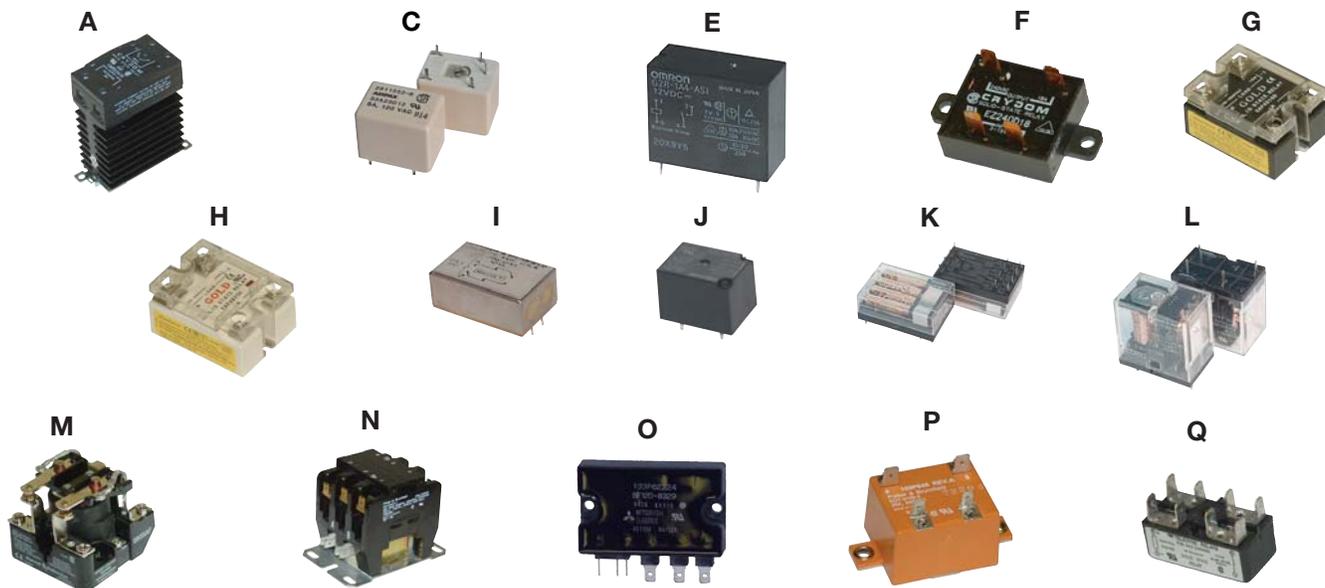
SUPERBRIGHT LED FLASHLIGHT



Flashlight with a single 1W White super bright white LED. Black, water resistant machined aluminum case. Fixed focus lens & reflector. Requires 3 "AAA" cells (not supplied). Alternate action push button switch on back. Includes 2" strap and soft belt pouch.

L: 4-1/2" D: 1-3/16" WT: .4

STOCK #	DESC.	1+EA
17588-TL	1W Superbright Flashlight	\$7.95



STOCK #	FIG.	COIL	CONTACTS	RATINGS	CONN.	DIM. LWH	MFG. PART #	LISTED	WT.	1EA	12+EA
12272-RL	C	12VDC	SPDT	10A@120VAC/24VDC-5A@240VAC	PC	13/16" x 5/8" x 5/8"	KEST/PN 6520		.025	\$1.95	\$1.75
12986-RL	E	12VDC	SPST-NO	10A@250VAC/30VDC 12V/270ohm coil	PC	1-5/8" x 7/16" x 1"	OMRON/PN G2R-1A4-ASI	UL	.01	\$1.95	\$1.75
9145-RL	I	24VDC	DPST-NC	10VA	PC	5/8" x 1-1/8" x 5/8"	P&B/PN JRM-1045	-	.06	\$1.95	\$1.69
9139-RL	J	24VDC	SPDT	10A@125VAC/6A@277VAC	PC	5/8" x 3/4" x 3/4"	AROMAT/PN JS1E-24V	UL	.027	\$1.95	\$1.75
4197-RL	K	48VDC	4PDT1A	@120VAC/30VDC Res. 1/10hp@120VAC	PC	1-1/4" x 13/16" x 1/2"	FUJITSU/PN FRL414D048/04CT	-	.03	\$0.99	\$0.79
12120-RL	L	24VDC	SPST-NO	15A@250VAC/24VDC Res.	PC	1-3/16" x 3/4" x 1-1/8"	OMRON G4W-1112P-VD-TV8-HP	UL	.06	\$1.95	\$1.75
15831-RL	N	24VDC	3PST-NO	35A/600VAC Resistive	QC1	2-1/4" x 2-1/2" x 2-7/8"	P&B/PN P31-E1014-1	UL	.95	\$3.50	\$3.25
18067-RL	M	24VAC	DPST-NO	25FLA/150LRA/240VAC/pole Motor Load 40A/277VAC/28VDC Resistive	SCW	2-1/2" x 2-1/2" x 2-1/2"	MAGNECRAFT/W199AX-8	UL/CSA/CE	.52	\$10.95	----
16726-RL	L	110VAC	DPDT	1-1/2hp/120-600VAC Motor	QC2	1-3/4" x 13/16" x 1-5	OMRON /LY2-UA-006244	UL	.2	\$2.95	\$2.75
17769-RL	A	3-32VDC	SPST-NO	35A @ 280VAC	SCW	3-7/8" x 1-3/4" x 4-1/4"	CRYDOM/CMRD2435	UL/CSA/VDE	1	\$24.95	----
17844-RL	O	5VDC	2X SPST-NO	6A @ 240VAC	QC2/header	3-3/16" x 5/8" x 1-5/8"	Mitsubshi/SF12D-8329	-----	.32	\$5.95	----
17947-RL	P	3-32VDC	SPST-NO	25A @ 280VAC	QC1/2	2-5/8" x 1-1/2" x 1-1/2"	P&B/EOT-4105-2	UL/CSA	.15	\$9.95	----
16596-RL	F	3-15VDC	SPST-NO	18A @ 240VAC	QC	2-7/8" x 1-1/2" x 1"	CRYDOM/EZ240D181	UL/CSA	.11	\$8.95	\$8.50
17154-RL	G	3-32VDC	SPST-NO	10A @ 480VAC	SCW	2-7/8" x 1-1/2" x 1"	Gold Control/SAP4810D	-----	.11	\$7.95	\$6.95
17155-RL	H	3-32VDC	SPST-NO	25A @ 480VAC	SCW	2-7/8" x 1-1/2" x 1"	Gold Control/SAP4825D	UL	.11	\$11.95	\$9.95
17157-RL	H	3-32VDC	SPST-NO	40A @ 480VAC	SCW	2-7/8" x 1-1/2" x 1"	Gold Control/SAP4840D	UL	.11	\$15.95	\$11.95
17288-RL	G	3.5-32VDC	SPST-NO	20A @ 480VDC	SCW	2-1/4" x 1-3/4" x 1-1/4"	Gold Control/SDP4020D	CE	.2	\$12.95	\$9.95
17289-RL	G	3.5-32VDC	SPST-NO	40A @ 480VDC	SCW	2-1/4" x 1-3/4" x 1-1/4"	Gold Control/SDP4040D	CE	.2	\$16.95	\$14.95

PC=PC MOUNT / SDR=SOLDER / SCW=SCREW / SKT=SOCKET / QC1=.25" QUICK CONN / QC2=.187" QUICK CONN / DIP=DIP / UL=UL/CSA

A

SOLID STATE INTERFACE MODULE



STOCK #	FIG.	IN/OUT	FUNCTION	RATINGS	CONN.	DIM. LWH	MFG. PART #	LISTED	WT.	1EA	12+EA
14419-RL	A	35-60VAC/DC	SPST	6mA Max @ 60V in, 4KV isolation	PC	1-11/16" x 9/16" x 1"	GRAYHILL/PN 70-IDC5G	UL	.1	\$3.95	\$3.55

SS Input Module Interface between Ext. Loads and Microprocessor. 3-6V Output (5VDC Nomimai) @ 10mA

DB-25 DATA CABLES



Gold Plated Contacts, All Lines Wired Through.

STOCK #	DESCRIPTION	WT.	1EA	5+EA
2887-CB	6' DB-25 Male/Male	.5	\$3.95	----
7716-CB	6' DB-25 Male/Female	.5	\$3.95	\$3.49
11451-CB	10' DB-25 Male/Female	.7	\$4.25	\$3.95
11452-CB	15' DB-25 Male/Male	.9	\$5.95	\$5.45
11453-CB	15' DB-25 Male/Female	.9	\$5.95	\$5.45
11454-CB	25' DB-25 M/M Cable	1.4	\$7.95	\$6.95
11455-CB	25' DB-25 M/F Cable	1.4	\$7.95	\$7.49
11456-CB	50' DB-25 M/M Cable	2.8	\$16.95	\$14.95
11457-CB	50' DB-25 M/F Cable	2.8	\$16.95	\$14.95
11459-CB	100' DB-25 M/F Cable	5.5	\$32.95	\$29.95

10' DB-25 M TO HALF PITCH CENTRONICS



IEEE 1284 compliant, 10ft. parallel printer cable. For use with Standard, ECP & EPP printer ports. Cable has a DB-25 male on one end and a 36pin Half Pitch Centronics male on the other. Platinum jacket with with foil & braided shielding. Molded strain relief on connectors.

L: 10ft WT: .8

STOCK #	DESC.	1EA	10+EA
16238-CB	10ft. Printer Cable	\$3.95	\$3.75

15' DB-25 M TO HALF PITCH CENTRONICS

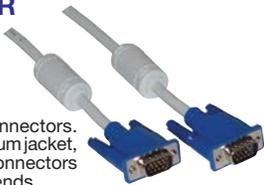


IEEE 1284II compliant, 15ft. parallel printer cable. For use with Standard, ECP & EPP printer ports. Cable has a DB-25 male on one end and a Half Pitch Centronics male on the other. Black jacket with foil & braided shielding.

L: 15ft WT: 1.2

STOCK #	DESC.	1EA	10+EA
12990-CB	15ft. Printer Cable	\$5.95	\$4.95

6FT. MONITOR CABLE



Hi-Density DB-15 connectors. Gold plated pins. Platinum jacket, Dark Blue molded connectors Ferrite filters on both ends.

L: 6ft. WT: .47

STOCK #	DESC.	1EA	5+EA
18095-CB	DB-15HD M/M Cable	\$2.49	

PC PARALLEL PRINTER CABLES



DB-25 male to 36 pin Centronic male, gold plated contacts.

STOCK #	DESCRIPTION	WT.	1EA	5+EA
11503-CB	6' UL Printer Cable	1	\$6.95	\$6.49
11506-CB	25' Printer Cable	1.1	\$4.95	\$4.49

AT/XT STYLE KEYBOARD CABLES



Extension cable with standard 5 pin DIN connectors. All lines wired through.

STOCK #	DESCRIPTION	WT.	1EA	5+EA
8020-CB	6' Straight Male/Male	.2	\$2.49	\$1.95
8022-CB	10' Straight Male/Male	.3	\$2.95	\$2.25
8025-CB	10' Coiled Male/Female	.3	\$3.95	\$2.95

PS-2 STYLE KEYBOARD CABLES



Keyboard extension cables with standard 6 pin mini DIN connectors. All lines wired through.

STOCK #	DESCRIPTION	WT.	1EA	5+EA
8026-CB	6' PS2 Male/Female	.2	\$2.95	\$2.75
8027-CB	6' PS2 Male/Male	.2	\$2.95	\$2.75
8028-CB	10' PS2 Male/Female	.2	\$3.49	\$2.95

SIGN-UP FOR OUR EMAIL SPECIALS ON MPJA.COM

KVM CABLE



6ft KVM (Keyboard/Video/Mouse) cable with 10" breakout on each end. Color coded 2 PS-2 Males on bothends with DB-15HD male on one end and DB-15HD female on other. Connect multiple computers to KVM switch.

L: 6ft WT: 5

STOCK #	DESC.	1EA	5+EA
14258-CB	6ft KVM Cable	\$9.95	\$7.95

GOLD PRINTER CABLE



12ft. double shielded parallel cable with Gold plated DB-25Male to Centronics Male connectors. Ferrite noise filter on DB-25 end of cable

L: 12ft. WT: 1.0

STOCK #	DESC.	1EA
15749-CB	Gold Printer Cable	\$1.35

"FIREWIRE" CABLES



IEEE 1394 "FIREWIRE" cables 4 pin mini connectors on both ends. For Digital Audio/Video equipment etc. Gold plated, Molded strain reliefs. Gray Jacket

L: 3ft WT: .24
L: 6ft WT: .29
L: 12ft WT: .38

STOCK #	DESC.	1EA	10EA
12979-CB	3ft 1394 Mini 4 Cable	\$4.95	\$4.50
12980-CB	6ft 1394 Mini 4 Cable	\$1.49	-----
12981-CB	12ft 1394 Mini 4Cable	\$6.95	\$6.50

KEYBOARD ADAPTERS



Computer keyboard Adapters, 2 Types available: 5 Pin DIN Female to 6 Pin Mini DIN Male 5 Pin DIN Male to 6 Pin Mini DIN Female

L: 2-1/8" WT: .03

STOCK #	DESC.	1EA	5+EA
12461-PL	DIN-F to Mini DIN-M	\$1.95	\$1.59
12463-PL	DIN-M to Mini DIN-F	\$1.95	\$1.59

MONITOR CABLES



Hi density DB-15 connectors. Gold Plated Pins

STOCK #	DESCRIPTION	WT.	1EA	5+EA
15558-CB	4.5' Monitor Cbl. M/M	.4	\$3.74	\$3.25
8646-CB	6' Monitor Cbl. M/M	.4	\$3.95	\$3.49
8647-CB	6' Monitor Cbl. M/F	.2	\$3.95	\$3.49
12259-CB	10' Monitor Cbl. M/M	.5	\$4.95	\$4.49
8649-CB	10' Monitor Cbl.M/F	.2	\$4.95	\$4.49

MONITOR CABLES



Heavy Duty-UL Listed Hi density DB-15 connectors. Gold Plated Pins

STOCK #	DESCRIPTION	WT.	1EA	5+EA
14082-CB	25' VGA Male/Male	1.8	\$19.95	\$16.95



DATA SWITCHES

Data switches with gold contact switch, Metal case, and non-slip feet. All lines wired through. Available as listed below in most standard configurations such as High Density & Standard DB-15, Phone jacks, 5 Pin DIN, Mini 8 pin DIN, BNC and Centronics (Printer).



STOCK #	CONN	COM. CONN.	I/O CONN.	DESCRIPTION	1EA	5+EA
17372-SW	DB-25	DB-25 Female	4X DB-25 Female	4 way Data Switch with DB-25 Connectors	\$13.95	\$12.95
4704-SW	DB-9	DB-9 Female	4X DB-9 Females	4 Way Data Switch with DB-9 Connectors	\$12.95	-----
4703-SW	DB15	DB-15 Female	4X DB-15 Females	4 Way Data Switch with Std. DB-15 Connectors	\$15.95	\$12.95
4702-SW	DB15HD	DB-15HD Female	4X DB-15HD Females	4 Way Data Switch with DB-15 Hi Density Conn.	\$14.95	\$12.95
4700-SW	DB9 & 5 Pin DIN	DB & DIN Female	4X DB & DIN Females	4 Way Data Switch DB9 & 5 Pin DIN Connectors	\$24.95	\$19.95
4705-SW	Mini 8 Pin DIN	Mini 8P DIN Female	4X Mini 8 DIN Females	4 Way Data Switch with Mini 8 Pin Din	\$14.95	\$11.95

6 FT FIREWIRE CABLE



IEEE 1394 Firewire cable with males on both ends. Black jacket with molded black strain relief on connectors. UL listed, RoHS compliant.
L: 6ft. WT: .2

STOCK #	DESC.	1EA	5+EA
17262-CB	6ft. Black Firewire Cable	\$2.95	

RS232 CABLE



10ft serial cable with a DB9-Female male on one end and a DB25 male on the other. Molded strain reliefs.
L: 10' WT: .5

STOCK #	DESC.	1EA	10+EA
12919-CB	10ft. RS232 Cable	\$2.95	\$2.49

NULL MODEM CABLE



DB-9 connectors. Gold plated pins. Wired as follows:

Pin 1	Pin 1	Pin 6	Not used
Pin 2	Pin 5 & 9	Pin 7	Pin 8
Pin 3	Pin 4	Pin 8	Pin 7
Pin 4	Pin 3	Pin 9	Pin 2 & 5
Pin 5	Pin 2 & 9		

L: 10ft. WT: .4

STOCK #	DESC.	1EA	5+EA
14414-CB	F/F NULL Modem Cable	\$3.25	\$2.95

DISC DRIVE CABLES



Cables to inter-connect floppy or hard drives to your system controllers.
7368-CB for 5-1/2 or 3-1/2 A/B floppys: 34 Pin header to two 34 Pin edge connectors & 34Pin headers.
7369 & 7981-CB For IDE drives: 40 Pin Header to one/two 40 Pin Headers
7982 & 7983-CB For SCSI drives: 50Pin header to one/two 50 Pin headers
WT: .17

STOCK #	DESC.	1EA	5+EA
7368-CB	28" Dual Floppy Cable	\$2.95	\$1.95
7369-CB	24" IDE Dual Hard Drive	\$2.95	\$1.95
7981-CB	18" IDE Single Hard Drive	\$1.95	\$1.59
7982-CB	18" SCSI Single Hard Drive	\$2.95	\$1.95
7983-CB	24" SCSI Dual Hard Drive	\$2.95	\$1.95

SATA POWER ADAPTERS



Power adapter cables for upgrading or add additional to SATA Hard Drives.
18075 Converts from conventional 4 Pin IDE connector to 2 SATA Power jacks
18076 Splits 1 SATA into 2 SATA Jacks
L: 6" WT: .05

STOCK #	DESC.	1EA
18075-CB	IDE to SATA Power Cable	\$5.95
18076-CB	SATA Splitter Power Cable	\$4.95

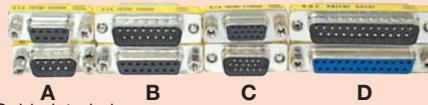
AT/ATX POWER CABLE EXTENSION



Motherboard power extension cable. Connects between your power supply connectors & the motherboard. AT: 12 conductor ATX: 20Conductor (ATX-V1.3)
L: 8" (AT) 6" (ATX) WT: .15

STOCK #	DESC.	1EA	5+EA
11219-CB	AT Extension Cable	\$3.95	\$2.95
15430-CB	ATX Extension Cable	\$3.95	\$2.95

THIN GENDER CHANGERS



Gold plated pins. Description is gender changer configuration.
WT: .1

STOCK #	FIG.	DESCRIPTION	1EA	5+EA
7006-PL	A	DB-9 Male/Male	\$1.95	\$1.65
7007-PL	A	DB-9 Female/Female	\$1.95	\$1.65
11216-PL	B	DB-15 Male/Male	\$2.95	\$2.39
11217-PL	B	DB-15 Female/Female	\$2.95	\$2.39
8036-PL	C	DB-15 Hi Den. M/M	\$3.95	\$2.49
8037-PL	C	DB-15 Hi Den. F/F	\$3.95	\$2.49
7008-PL	D	DB-25 Male/Male	\$1.95	\$1.65
7009-PL	D	DB-25 Female/Female	\$1.95	\$1.65

DB-9 EXTENSION CABLES



DB-9 connectors. Gold Plated Pins

STOCK #	DESCRIPTION	WT.	1EA	5+EA
8641-CB	6' DB-9 Male/Male	.22	\$2.95	\$2.49
8642-CB	6' DB-9 Male/Female	.22	\$2.95	\$2.75
8643-CB	10' DB-9 Male/Male	.4	\$3.49	\$2.95
8644-CB	10' DB-9 Male/Female	.4	\$3.49	\$2.95

6FT. DB-9 EXTENSION CABLE



DB-9 Male/Female extension cable with Blue molded connectors, platinum jacket and ferrite noise filters on both ends
L: 6ft WT: .4

STOCK #	DESC.	1EA	10+EA
16142-CB	DB-9Cable Blue Ends	\$1.49	\$1.25

6FT.DB-9 M/F EXTENSION CABLE



DB-9 connectors with Gold plated pins. Male on one end, female on other. Blue molded ends, black jacket, ferrite noise filters on both ends.
L: 6ft WT: .3

STOCK #	DESC.	1EA	10+EA
15568-CB	6ft. DB-9 Cable	\$2.25	\$1.95

DISC DRIVE POWER CABLES



Adapt large 4 Pin molex power connectors to mini 4 pin connectors. "Y"s for connecting two drives from one connector.
WT: .044

STOCK #	DESC.	1EA	5+EA
7206-CB	Large to Mini	\$1.95	\$1.75
7207-CB	Large "Y"	\$1.95	\$1.75
7208-CB	Large to 2 Mini (Y)	\$1.95	\$1.75
11218-CB	Large to Mini & Large	\$1.95	\$1.75

POWER PLUG ADAPTER



Plastic body Barrel connector, 5.5/2.5mm Plug To 5.5/2.1mm Jack.
L: 1-7/16" WT: .014

STOCK #	DESC.	1EA
17573-PL	5.5/2.5mm to 5.5/2.1Adapter	\$1.25

3.5" FLOPPY DRIVE



Standard 1.44MB 1/2 height floppy drives. Ideal for system expansion drive or as a replacement. Standard 4 pin power & edge board connectors.
WT: .9

STOCK #	DESC.	1EA	5+EA
7974-MI	Mitsumi 3.5" 1.44 Floppy	\$19.95	\$17.95

3.5" DRIVE MOUNTING KITS



Hard to find Mounting kits for standard 3.5" 1/2 height floppy
WT: .52

STOCK #	DESC.	1EA	5+EA
7975-MI	3.5 Floppy Mtg. Kit	\$3.95	\$2.95

MOUSE ADAPTERS



Allows mice with DB-9 connectors to connect to Mini 6 Pin DIN ports and Vice Versa. Choice of Male to Male or Female to Female
WT: .1

STOCK #	DESC.	1EA	5+EA
8043-PL	DB-9F to Mini DIN F	\$2.95	\$2.49
8044-PL	DB-9 M to Mini DIN M	\$2.95	\$2.49

DB-25 JUMPER BOX



Customize a RS-232 interface to meet a specific need, all 25 lines connect to solder pads on PC board, inter-connect the pads with wire (supplied) to fit your needs.
WT: .3

STOCK #	DESC.	1EA	10+EA
2975-HC	Male/Female Jump Box	\$6.95	\$5.95

SERIAL PORT ADAPTERS



DB-9 to DB-25 serial Port Adapter. Connections shown below
DB-9 to DB-25 DB-9 to DB-25 DB-9 to DB-25
3 2 2 3 5 4
8 5 6 6 7 7
1 8 4 20 9 22
WT: .1

STOCK #	DESC.	1EA	10+EA
4724-PL	DB9 Male/DB25 Female	\$1.95	\$1.59
8042-PL	DB9 Female/DB25 Male	\$1.95	\$1.59

SERIAL PORT ADAPTER



Pins 4&5 connected together & 6,8&20 connected together on each connector but not wired through to other connector

Internal Connections
DB25M to DB25F DB25M to DB25F
pin 1 pin 1 pin 7 pin 7
pin 2 pin 3 pin 8,20 NC
pin 3 pin 2 pin 9 pin 9
pin 4&5 NC NC pin 4&5
pin 6,8,20 NC pin 6,8,20
WT: .2

STOCK #	DESC.	1EA	5+EA
8359-HC	Serial Port Adp.	\$4.95	\$3.59

USB PRINTER CABLE



6ft. Universal Serial Bus printer cable. Cable has a Type A male on one end and a Centronics male on the other.

L: 6ft WT: .4

STOCK #	DESC.	1EA	5+EA
12391-CB	USB Printer Cable	\$26.95	\$24.95

UNIVERSAL SERIAL BUS CABLES



USB inter-connect cables

STOCK #	DESCRIPTION	WT.	1EA	5+EA
11160-CB	6ft. USB A/A M/M	.15	\$2.95	\$2.59
12389-CB	6ft. USB A to A M/F	.15	\$2.95	\$2.59
11161-CB	6ft. USB A to B M/M	.16	\$2.95	\$2.59
12390-CB	10ft. USB A to B M/M	.22	\$3.95	\$3.59

16FT. USB CABLE



16ft. cable with a Type A Male on one end and a Type B male on other end. Molded Ferrite filter 4in. from Type B end. Quality black cable with molded strain relief on connectors.

L: 16ft. WT: .05

STOCK #	DESC.	1EA
15869-CB	16ft. USB Cable	\$2.49

6 FT USB CABLE



USB cable with a Type A Male on one end and a Type B Male on the other. Platinum jacket with molded black strain relief on connectors. Ferrite filter on Type B end.

L: 6ft. WT: .2

STOCK #	DESC.	1EA
16145-CB	6ft. USB Cable	\$1.25

USB 2.0 COLOR CABLES



USB 2.0 cables with a Type A male on one end and a Type B Male on the other. Translucent Color jacket & molded strain relief on connectors. Color key your USB equipment

L: 2m (6ft.) WT: .2

STOCK #	DESC.	1EA	50EA
16696-CB	Purple USB 2.0 Cable	\$1.25	\$1.09
16697-CB	Red USB 2.0 Cable	\$1.25	\$1.09
16698-CB	Orange USB 2.0 Cable	\$1.25	\$1.09

USB CHASSIS BRACKET



Computer chassis bracket Port Adapters with 2 Type "A" Female connectors. 6" cables to header sockets.

L: 5" WT: .13

STOCK #	DESC.	1EA	5+EA
11162-CB	Dual 1X4 Header	\$3.95	\$3.59

MICRO CLIP TEST LEADS



Red & Black test leads with a molded BNC Female on one end and Micro clips on the other.

L: 5" WT: .03

STOCK #	DESC.	1EA	10+EA
17559-TE	5in. Test Hook Leads	\$3.95	\$2.95

USB GENDER CHANGERS



Description is gender changer configuration.

WT: .01

STOCK #	DESC.	1EA	5+EA
12452-CB	A Female/B Female	\$3.75	\$3.25
12453-CB	A Male/B Female	\$3.50	\$2.95
12454-CB	A Female/ B Male	\$3.50	\$2.95
15476-PL	A Male/A Male	\$3.50	\$2.95
15477-PL	A Male/A Female	\$3.50	\$2.95
15478-PL	A Female/A Female	\$3.50	\$2.95
15479-PL	B Male/B Male	\$3.50	\$2.95
15480-PL	B Female/B Female	\$3.50	\$2.95

USB/RJ ADAPTERS



Description is connector configuration.

L: 2-1/4" WT: .04

STOCK #	DESC.	1EA	5+EA
15485-PL	A Male/RJ-45 Male	\$2.95	\$2.50
15486-PL	A Female/RJ-45 Male	\$2.95	\$2.50
15487-PL	A Male/RJ-11Male	\$2.95	\$2.50
15488-PL	A Female/RJ-11Male	\$2.95	\$2.50

USB -PS2 ADAPTERS



Computer keyboard Adapters, 2 Type available: 6 Pin Mini DIN Female to USB Type A Male

L: 2-1/4" WT: .04

STOCK #	DESC.	1EA	10+EA
14256-PL	PS2-F to USB-A-Male	\$1.95	\$1.59
14257-PL	PS2-M to USB-A-Female	\$1.95	\$1.59

USB/MINI CON. ADAPTERS



Description is connector configuration.

L: 2-1/4" WT: .04

STOCK #	DESC.	1EA	5+EA
15483-PL	A Male/Mini 4 (Mitsumi)	\$3.95	\$3.50
15484-PL	A Male/Mini B 5 pin	\$3.95	\$3.50

GOLD USB CABLE



Type A male to a Type B Male USB cables with White jacket, molded strain reliefs and Gold plated connectors.

L: 6ft WT: .2

STOCK #	DESC.	1EA
15743-CB	6ft. USB A/B Cable	\$1.49

6 FT USB CABLE



6ft. USB cable with a TYPE A male on one end and a Type B Male on the other. Platinum jacket with molded black strain relief on Type A on connector.

L: 6ft. WT: .2

STOCK #	DESC.	1+EA
16144-CB	6ft.USB Cable	\$1.25

6FT. DB-9 CABLE



DB-9 cable with Gray jacket and Female DB-9 molded connectors on both ends. All lines wired through.

L: 6ft WT: .5

STOCK #	DESC.	1EA
17985-CB	6ft. DB-9F/F Cable	\$4.95

5 FT USB CABLE



3COM P/N 10043601 FOXCONN P/N CUDA005C-K14 USB 1.1 cable with a Type A male on one end and a Type B Male on the other. White jacket with molded strain relief on connectors.

L: 5ft. WT: .2

STOCK #	DESC.	1EA
17973-CB	5ft. White USB Cable	\$0.59

SECURE
ON-LINE ORDERING www.mpja.com

6 FT USB CABLE



USB cable with a Type A male on one end and a Type B Male on the other. Black jacket with molded black strain relief on connectors. Ferrite filter on both ends.

L: 6ft. WT: .2

STOCK #	DESC.	1EA
16588-CB	6ft. Black USB Cable/2 filters	\$1.25

USB CAMERA CABLE



KODAK, USB cable with a Type A male on one end and a 4 Pin Mitsumi Male on the other. For C-300, Camera Dock 6000, Dock II, Dock 420/443, Various CX, DX, LX cameras, Printer Dock, Dock 4000,6000, Plus. Black jacket with molded black strain relief on connectors. Ferrite filter on Mini Mitsumi end

L: 4.5ft. WT: .13

STOCK #	DESC.	1EA
17505-CB	4.5ft. Black USB Mitsumi Cable	\$3.99

USB TO SERIAL CONVERTER



Allows you to free up your RS-232 Port or add Port to Laptop. No IRQ required. Supports auto handshake mode, remote wake-up & power management. Works with ISDN terminal adapters, modems. Driver files provided on disk, latest drivers available Via Internet from Mfg. website. No external power required. Type "B" Female input, DB-25Male output, includes 6ft cable with USB Type A male on one end & Type "B" male on other.

WT: .5

STOCK #	DESC.	1EA	5+EA
14246-CP	USB RS-232 Link	\$24.95	\$22.95

USB CHASSIS CABLE



9" USB cable with a panel/chassis mount Type B Female on one end and a Type B Male on the other. Black jacket, molded strain reliefs

L: 9" WT: 1.2

STOCK #	DESC.	1EA	10+EA
15455-CB	9in. USB Chassis Cable	\$1.95	\$1.69

USB 107-KEY KEYBOARDS

Black OR Beige 107 key, 4ft. cable with USB Type A male connector. Keys for ACPI power management "WAKE UP", "SLEEP" & "POWER". Black base & keys with white letters OR Beige base & keys with Black letters, tactile feedback, LED's for Number, Caps, & Scroll Lock. 98/ME/2K/NT/XP compatible. FCC/CE approved.

W: 17-3/4" D: 6-1/4" H: 1" WT: 2.1

STOCK #	DESC.	1EA	5+EA
15903-KB	USB Black Keyboard	\$8.95	\$7.95
15930-KB	USB Beige Keyboard	\$8.95	\$7.95



MINI PS-2 KEYBOARDS

Mini footprint 88 key keyboard. With Windows 95™, enhanced keys 6ft. cord with 6 pin Mini DIN connector. Two colors to choose from. UL/CSA/CE Listed

L: 11-3/8" W: 5-5/8" H: 1" WT: 1.5

STOCK #	DESC.	1EA	5+EA
12443-KB	Ivory Mini Keyboard	\$29.95	\$28.95
12444-KB	Black Mini Keyboard	\$29.95	\$28.95



DSL CABLE

3-COM "Polarity" patch cable used to connect DSL Modem to Network RJ-45 plugs each end. Wired:

Pin 1 to Pin 1	Pin 2 to Pin 2
Pin 3 to Pin 6	Pin 4 & 5 Open
Pin 6 to Pin 3	

L: 6ft. WT: .12

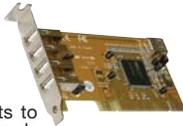


PCI TO USB 2.0 INTERFACE CARD

Adds 5 USB 2.0 root-Hub ports to PC. Supports 480, 12 & 1.5Mbps devices. Features 5 down stream type "A" female ports; (4 external & 1 internal). Supplies in excess of 500mA per port to downstream devices. For Windows 98SE/ME/2000/XP®. Supports hot swap & wake-up. Chains up to 127 devices

WT: .5

STOCK #	DESC.	1EA	5+EA
12487-CP	USB/PCI Card	\$29.95	\$26.95

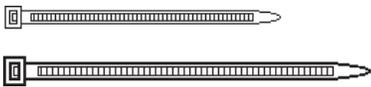


USB 4 PORT INTERNAL HUB

Hub supports full speed (12Mbps) and low speed (1.5Mbps) devices. Features 1 upstream type "B" female port and 4 downstream type "A" female ports. Includes 1ft upstream cable (A male/B male), 6in long power cable (connects into HDD/CD/Floppy Power).

WT: .5

STOCK #	DESC.	1EA	5+EA
12484-CP	USB 4 Port Hub	\$29.95	\$26.95



TY-RAPS

UL listed Natural or Black Nylon ties Sold in packs of 100

STOCK #	DESC.	1PK	10+PK
0200-TY	5-1/2" Ty-Rap	.1	\$1.70 \$1.50
4529-TY	7-1/2" Ty-Rap	.2	\$2.80 \$2.00
4530-TY	11" Ty-Rap	.5	\$5.00 \$3.90
11630-TY	4" Black Ty-Rap	.1	\$1.30 \$1.10
11508-TY	7-1/2" Black Ty-Rap	.2	\$2.50 \$2.00
11633-TY	11" Black Ty-Rap	.5	\$6.90 \$5.50
0199-TY	4" Ty-Rap	.1	\$1.10 \$0.90

STAINLESS STEEL TIES

6pc. steel wire ties. For wire, cable or pipes.

17545: L: 7" W: 3/16" WT: .05
17873: L: 12" W: 6/16" WT: .1

STOCK #	DESC.	1EA
17545-TY	6 Pack 7in. Wire Ties	\$1.95
17873-TY	6 Pack 12in. Wire Ties	\$3.50



CABLE ORGANIZERS

10pcs. set of velcro cable ties. 6in. of Loop with 2in. of hook on reverse side used to organize all those Computer, or home entertainment cables and cords. Holds up to 1-3/4in. bundle.

L: 7" W: 1" WT: .06

STOCK #	DESC.	1EA
17881-TY	10 Pack Hook/Loop Ties	\$1.95



PCI WATCHDOG CARDS

32 bit Plug-N-Play PCI Watchdog timer adapter provides user selectable refresh timer to automatically reset the system. When the timer adapter is enabled, the system software or application program must refresh the Watchdog before selected time expires (500mS to 1hr.) otherwise the computer will be reset. Connects between Reset button and motherboard. Reboots computers should it "hangup". Status LED shows if system was reset. Pentium/AMD compatible.

Watchdog I includes PCI card, Reset cable & application software (LINUX, OXC & drivers for Visual "C" & Visual Basic under Win98/NT/2000. Watchdog II. Includes everything in Watchdog I as well as an external power control box & cable to reset power to peripheral devices.

WT: Watchdog I : 2 WT: Watchdog II: 4

STOCK #	DESC.	1EA
12761-DC	Watchdog I	\$75.00
12762-DC	Watchdog II	\$170.00

NEW LOWER PRICE



PCI 4/8 PORT RS232 COM BOARDS

32 bit Plug-N-Play PCI 4 or 8 port adapters provides auto detection by BIOS of IRQ and I/O address automatically, no need to set switches and jumpers. Provides 4 or 8 asynchronous serial communication ports (RS232), to link the computer to serial devices such as terminals, modems, printers, plotters, etc. The adapter is particularly suited for the connection of terminals (VDUs) in multi-user operating systems. The board may be installed in any Pentium or hardware compatible systems. The adapter can be configured as COM4. On board ST16C554 ICs provides the function of 8 16550s with 16 bytes FIFO buffer for each ports. Normal speed mode supports baud rate up to 115200. High speed mode supports baud rate up to 460K. Up to 4 boards per system, with DB-9M or DB-25M breakout cable.

WT: 2

STOCK #	DESC.	1EA
12763-DC	4PortBoard/DB-9	\$90.00
12764-DC	4Port Board/DB-25	\$75.00
12765-DC	8PortBoard/DB-9	\$140.00
12766-DC	8Port Board/DB-25	\$130.00

NEW LOWER PRICE



150W ATX SUPPLY

MFG: SEVENTEAM P/N: ST-150MH STYLE: ATX1.X 20Pin Input: 110/220 VAC 50-60Hz Output #1: +3.3V @ 6A #2: +5V @ 12A #3: +12V @ 5A #4: -12V @ .1A #5: -5V @ .1A #6: +5VSB @ 1.5A Specifications/Features: 80W Max. combined +3.3 & 5V outputs. Mini ATX form factor 150W switching supply for P.C. systems. IEC input power connector, voltage range switch & Power switch on back. Standard 2X10 (20 Pin) mother board connector, 4 molex 4 pin IDE connectors & 2 mini 4 pin for FDD etc. UL/CSA/CE listed.

L: 5-1/4" W: 3-7/8" H: 2-1/2" WT: 2.2

STOCK #	DESC.	1EA
18034-PS	150W Mini ATX Supply	\$12.95

MORE PGS 9,10



RS232 BREAK-OUT BOX

Used to test & rewire RS232 interfaces. Unit gives you control of interface. 10 Bi-Polar LEDs monitor all std signals + 2 spare LEDs for your use. Switches & jumper positions allow reconfiguration of the 24 active lines. 8" flat ribbon cable to DB-25 Male connector, panel mounted DB-25 Female connector. 20 jumper wires included.

L: 3-1/2" H: 3-1/4" T: 1" WT: .3

STOCK #	DESC.	1EA	5+EA
7865-MI	Breakout Box	\$23.95	\$22.55



680W ATX SUPPLY/PCIE

MFG: ECHO STAR STYLE: ATX (20 +4pin) Input: 115/230VAC 50/60Hz Outputs: #1: +3.3V @ 35A #2: +5V @ 50A #3: +12V @ 26A #4: -5V @ 0.6A #5: -12V @ 1.0A #6: +5V SB @ 2.5A Specifications/Features: Single Blue LED lighted fan, 680W switching supply for P.C. systems. IEC input power connector, Single 2 X10 (20) pin with a "slide together" 2 X 2 (4) pin connector to make a 24 pin mother board connector as needed, 1 Aux +12V 4 pin CPU Core connector, 1 PCIe connector, 2 SATA drive connectors, 6 molex 4 pin IDE connectors, 1 mini 4 pin for FDD. Single Blue lighted fan.

L: 6-1/4" W: 6" T: 3-1/4" WT: 2.9

STOCK #	DESC.	1EA
17715-PS	680W ATX Supply/PCIE	\$45.95

MORE PGS 9,10



CAT-5E COMPUTER CABLES

Flexible patch cables with RJ-45 (8X8) plugs. Straight wired to T568B ATT-258A standards. 100% tested wire sequence & continuity. Verified to EIA/TIA Cat. 5E standards. Plugs feature 50 micro inch gold plated contacts. Conforms to FCC requirements

STOCK #	DESCRIPTION	WT.	1EA	10+EA
16931-TT	1ft. Yellow Cat-5e Cable	.03	\$0.49	\$0.45
16932-TT	1ft. Blue Cat-5e Cable	.03	\$0.49	\$0.45
16934-TT	3ft. Yellow Cat-5e Cable	.05	\$0.69	\$0.59
16935-TT	3ft. Blue Cat-5e Cable	.05	\$0.69	\$0.59
16461-TT	3ft. Gray Cat-5e Cable	.05	\$0.69	\$0.59
16937-TT	7ft. Yellow Cat-5e Cable	.1	\$1.25	\$0.99
16938-TT	7ft. Blue Cat-5e Cable	.1	\$1.25	\$0.99
16462-TT	7ft. Gray Cat-5e Cable	.1	\$1.25	\$0.99
17120-TT	14ft. Yellow Cat-5e Cable	.1	\$1.99	\$1.69
17121-TT	14ft. Blue Cat-5e Cable	.1	\$1.99	\$1.69
17122-TT	14ft. Gray Cat-5e Cable	.1	\$1.99	\$1.69
16943-TT	25ft. Yellow Cat-5e Cable	.4	\$2.99	\$2.69
16944-TT	25ft. Blue Cat-5e Cable	.4	\$2.99	\$2.69
16464-TT	25ft. Gray Cat-5E Cable	.4	\$2.99	\$2.69
16946-TT	50ft. Yellow Cat-5e Cable	.7	\$5.49	\$4.99
16947-TT	50ft. Blue Cat-5e Cable	.7	\$5.49	\$4.99
16465-TT	50ft. Gray Cat-5e Cable	.7	\$5.49	\$4.99
16949-TT	100ft. Yellow Cat-5e Cable	1.2	\$9.95	\$8.95
16950-TT	100ft. Blue Cat-5e Cable	1.2	\$9.95	\$8.95
16951-TT	100ft. Gray Cat-5E Cable	1.2	\$9.95	\$8.95



OPTICAL DATA CABLES

DUPLIX cables feature ZIP cord cable split out at each end.

MULTIMODE

62.5/125mm multimode cable/Connectors

SINGLE MODE

9/125mm singlemode cable/Connectors

ST/ST CABLES

Type ST connectors on both ends.



WT: .1/.2/.4

STOCK #	DESC.	1EA	5+EA
14758-FO	1m ST/ST M/M Cable	\$15.00	\$12.40
14760-FO	5m ST/ST M/M Cable	\$30.00	\$24.20
14761-FO	1m ST/ST S/M Cable	\$32.00	\$27.40
14763-FO	3m ST/ST S/M Cable	\$33.00	\$28.00
14764-FO	5m ST/ST S/M Cable	\$34.00	\$29.20

SC/SC CABLES

Type SC connectors on both ends.



WT: .1/.2/.4

STOCK #	DESC.	1EA	5+EA
14766-FO	1m SC/SC M/M Cable	\$17.49	\$13.80
14767-FO	3m SC/SC M/M Cable	\$19.00	\$16.20
14768-FO	5m SC/SC M/M Cable	\$33.00	\$28.20
14782-FO	1m SC/SC S/M Cable	\$35.00	\$28.70
14783-FO	3m SC/SC S/M Cable	\$37.00	\$29.00
14784-FO	5m SC/SC S/M Cable	\$38.00	\$30.00

SC/ST CABLES

Type SC connectors on 1 end
Type ST connectors on other end.



WT: .1/.2/.4

STOCK #	DESC.	1EA	5+EA
14770-FO	1m SC/ST M/M Cable	\$17.00	\$14.00
14771-FO	3m SC/ST M/M Cable	\$18.00	\$14.20
14772-FO	5m SC/ST M/M Cable	\$32.00	\$28.00
14786-FO	1m SC/ST S/M Cable	\$37.00	\$29.00

LC/SC CABLES

Type LC connectors on 1 end
Type SC connectors on other end.



WT: .1/.2/.4

STOCK #	DESC.	1EA	5+EA
14774-FO	1m LC/SC M/M Cable	\$33.00	\$28.00
14775-FO	3m LC/SC M/M Cable	\$34.00	\$28.60
14790-FO	1m LC/SC S/M Cable	\$37.70	\$30.00
14791-FO	3m LC/SC S/M Cable	\$39.00	\$31.00
14792-FO	5m LC/SC S/M Cable	\$43.90	\$34.30

LC/ST CABLES

Type LC connectors on 1 end
Type ST connectors on other end.



WT: .1/.2/.4

STOCK #	DESC.	1EA	5+EA
14779-FO	3m LC/ST M/M Cable	\$34.00	\$28.60
14780-FO	5m LC/ST M/M Cable	\$37.00	\$29.00
14794-FO	1m LC/ST S/M Cable	\$39.00	\$31.00
14795-FO	3m LC/ST S/M Cable	\$40.36	\$32.29
14796-FO	5m LC/ST S/M Cable	\$44.00	\$35.00

ECONOMY AUDIO SERIES

For digital interconnects between properly equipped Amps, Tuners, CD's etc. 2.2mm Dia. Plastic cable with plastic connectors. Max loss: 2db/m @ 650nM wavelength. Min bending radius: 30mm (1-3/8in).

3.5MM MINI OPTICAL CABLES

3.5mm optical mini plug on both ends.



WT: .2/.4/.6

STOCK #	DESC.	1EA	5+EA
15601-FO	3Ft. Optical Mini Cable	\$3.95	\$3.50
15602-FO	6Ft. Optical Mini Cable	\$4.50	\$3.95
15603-FO	10Ft. Optical Mini Cable	\$5.50	\$4.95

TOSLINK OPTICAL CABLES

Optical cable with TOSLINK plug on both ends.



WT: .2/.4/.6

STOCK #	DESC.	1EA	5+EA
15604-FO	3Ft. TOSLINK Cable	\$3.95	\$3.50
15606-FO	10Ft. TOSLINK Cable	\$5.50	\$4.95

TOSLINK/MINI OPTIC CABLES

Optical cable with a TOSLINK plug on one end and a 3.5mm Optical Mini plug on other.



WT: .2/.4/.6

STOCK #	DESC.	1EA	5+EA
15608-FO	6Ft. TOSLINK/3.5Cable	\$4.50	\$3.95
15609-FO	10Ft. TOSLINK/3.5 Cable	\$5.50	\$4.95

OPTICAL ADAPTERS



Bi-directional, between series adapters.

- 15617: TOSLINK Jack to 3.5mm Plug
- 15618: TOSLINK Jack to Right Ang. 3.5mm Plug
- 15619: TOSLINK Jack to Right Ang. 3.5mm Plug with 360deg. free rotation
- 15620: 3.5mm Jack to TOSLINK Plug

WT: .15

STOCK #	DESC.	1EA	5+EA
15617-FO	TOS>3.5mm Straight	\$2.70	\$2.29
15618-FO	TOS>3.5mm Right Ang.	\$3.95	\$3.25
15619-FO	TOS>3.5mm R/A 360°	\$3.95	\$3.25
15620-FO	3.5mm > TOS Straight	\$2.50	\$2.24

OPTICAL ADAPTERS



Simplex, Multi. or Single mode, Zinc body

WT: .15

STOCK #	DESC.	1EA	5+EA
15680-FO	Adp. ST/ST M/M Bkhead	\$2.59	\$2.25
15681-FO	Adp. SC/SC M/M Flange	\$3.60	\$3.29
15682-FO	Adp. FC/FC M/M Flange	\$3.95	\$3.85
15683-FO	Adp. ST/SC M/M Flange	\$3.60	\$3.29
15684-FO	Adp. SC/FC M/M Flange	\$4.95	\$4.75
15685-FO	Adp. ST/FC M/M Flange	\$3.60	\$3.29
15686-FO	Adp. ST/ST S/M Bkhead	\$4.95	\$4.75
15688-FO	Adp. SC/SC S/M Flange	\$6.20	\$4.96
15689-FO	Adp. FC/FC S/M Square	\$6.95	\$6.75

PREMIUM AUDIO SERIES

For digital interconnects between properly equipped Amps, Tuners, CD's etc. 5mm Dia. Plastic cable with Metal connectors. Max loss: 2db/m @ 650nM wavelength. Min bending radius: 30mm (1-3/8in).

3.5MM OPTICAL MINI CABLES

3.5mm optical mini plugs on both ends.



WT: .2/.4/.6

STOCK #	DESC.	1EA	5+EA
14723-FO	10Ft. Optical Mini Cable	\$11.50	\$9.20

TOSLINK OPTIC CABLES

Optical cable with TOSLINK plugs on both ends.



WT: .2/.4/.6

STOCK #	DESC.	1EA	5+EA
14724-FO	3Ft. TOSLINK Cable	\$7.50	\$6.00
14725-FO	6Ft. TOSLINK Cable	\$9.50	\$7.60

TOSLINK/MINI OPTICAL CABLES

Optical cable with a TOSLINK plug on one end and a 3.5mm Optical Mini plug on other.



WT: .2/.4/.6

STOCK #	DESC.	1EA	5+EA
14727-FO	3Ft. TOSLINK/3.5 Cable	\$7.50	\$6.00
14729-FO	10Ft. TOSLINK/3.5 Cable	\$11.50	\$9.20

OPTICAL REPEATER

Boosts Optical signals levels up to drive cables up to 20meters. TOSLINK Jacks in/out. Plastic case. Includes power supply.



WT: .46

STOCK #	DESC.	1EA	5+EA
14716-FO	Optical Repeater	\$25.50	\$20.40

OPTICAL/DIGITAL CONVERTER

Converts Optical signals to Digital. RCA Jacks for digital; TOSLINK Jack for optical. Plastic case. Includes Power supply



WT: .46

STOCK #	DESC.	1EA	5+EA
14715-FO	Optical to Digital Conv.	\$26.00	\$20.80

OPTICAL SWITCH

3 way bi-directional optical switch with 3.5mm optical in/outputs. Select from 3 different audio sources, or receivers. Includes TOSLINK to 3.5mm optical adapters.



WT: .23

STOCK #	DESC.	1EA
15189-FO	Fiber Optic Switch	\$4.99

18IN. FIBER OPTIC AUDIO CABLE

18" optical cable with 3.5mm optical mini plugs on both ends. For digital interconnects between properly equipped Amps, Tuners, CD's etc. Max loss: 2db/m @ 600nM wavelength. Min bending radius: 22mm (1in).



WT: .035

STOCK #	DESC.	1EA
15257-FO	18in. Optical Cable	\$0.99

A/V CABLES

Premium Stereo audio & composite video cable with Oxygen free copper wire. Left & Right Stereo cables & video coax. Copper braid & aluminum foil double shielding, stranded center conductor. Molded strain relief 24kt gold plated Red, White & Yellow coded RCA Plugs.



STOCK #	DESCRIPTION	WT.	1EA	5+EA
17188-CB	9ft. H/D A/V Cable	1.2	\$7.95	
17189-CB	13ft. H/D A/V Cable	1.4	\$9.95	

FIBER OPTIC DUBBING CABLES

Siamese dubbing cable with fiber optic cable with TOSLINK connectors for audio and coax cable with Gold plated RCA Plugs for video.



L: 6/12ft WT: .4/.62

STOCK #	DESC.	1EA	10+EA
15504-CB	12' F/Optic Dubbing Cable	\$8.95	\$7.95
16740-CB	6' F/Optic Dubbing Cable	\$2.95	----

3FT. FIBER OPTIC AUDIO CABLE

3 ft. optical cable with TOSLINK connectors, includes adapters for 3.5mm optical mini plugs. For digital interconnects between properly equipped Amps, Tuners, CD's etc. Max loss: .2db/m. Min bending radius: 30mm (1.2in).



L: 3ft WT: .12

STOCK #	DESC.	1EA	5+EA
15471-CB	Fiber Optic Audio Cable	\$1.95	

6FT. FIBER OPTIC AUDIO CABLE

6 ft. optical cable with 3.5mm optical mini plugs on both ends. For digital interconnects between properly equipped Amps, Tuners, CD's etc. Max loss: 2db/m @ 600nm wavelength. Min bending radius: 22mm (1in).



L: 6ft WT: .14

STOCK #	DESC.	1EA	5+EA
14493-CB	3.5mm Optical Cable	\$1.49	

6FT. FIBER OPTIC CABLE

6ft. TOSLINK to 1/8" Optical Phone Plug cable. For digital interconnects between properly equipped Amps, Tuners, CD's etc. Max loss: .2db/m. Min bending radius: 30mm



L: 6ft WT: .09

STOCK #	DESC.	1EA	10+EA
15533-FO	Fiber Optic Audio Cable	\$1.99	

OFC SUPER AUDIO CABLES

Deluxe audio cable made with 99.96% Oxygen free copper wire. Copper braid & aluminum foil double shielding. 24kt gold plated RCA connectors are insulated with a shield to eliminate interference.



STOCK #	DESCRIPTION	WT.	1EA	10+EA
12618-CB	12ft. OFC Cable	.33	\$5.29	\$4.95

PREMIUM A/V CABLES

Premium Stereo audio & composite video cable made with Oxygen free copper wire. Left & Right Stereo cables & video coax. Copper braid & aluminum foil double shielding. 24kt gold plated Red, White & Yellow coded RCA Plugs with metal shells.



STOCK #	DESCRIPTION	WT.	1EA	5+EA
16885-CB	6ft. Prem. A/V Cable	.6	\$29.95	\$27.95
16886-CB	12ft. Prem. A/V Cable	1.1	\$36.95	\$33.95
16887-CB	25ft. Prem. A/V Cable	2.2	\$54.95	\$49.95

HEAVY DUTY A/V CABLES

Heavy duty stereo audio & composite video cable with Oxygen free copper wire. Left & Right Stereo cables & video coax. Copper braid & aluminum foil double shielding. Molded strain relief 24kt gold plated Red, White & Yellow coded RCA Plugs.



STOCK #	DESCRIPTION	WT.	1EA	5+EA
16891-CB	6ft. H/D A/V Cable	.6	\$15.95	\$12.95
16892-CB	12ft. H/D A/V Cable	1.1	\$24.95	\$21.95
16893-CB	25ft. H/D A/V Cable	2.1	\$45.95	\$41.95

STANDARD A/V CABLES

Stereo audio & composite video cable. Left & Right Stereo cables & video coax. Copper braid. Molded strain relief 24kt gold plated Red, White & Yellow coded RCA Plugs.



STOCK #	DESCRIPTION	WT.	1EA	5+EA
16896-CB	3ft. Std. A/V Cable	.2	\$4.95	\$4.49
16897-CB	6ft. Std. A/V Cable	.3	\$5.95	\$5.49
16898-CB	12ft. Std. A/V Cable	.6	\$6.95	\$6.49

A/V PATCH CABLES WITH RCA PLUGS

Single & Dual cables for audio/video equipment patching



STOCK #	DESCRIPTION	WT.	1EA	10+EA
4906-TV	6ft. Single Cable	.11	\$1.25	\$0.99
4907-TV	12ft. Single Cable	.18	\$1.95	\$1.75
4903-TV	3ft. Dual Cable	.33	\$1.49	\$1.35
4904-TV	6ft. Dual Cable	.48	\$1.75	\$1.49
4905-TV	12ft. Dual Cable	.52	\$2.49	\$2.25

1/8" PHONE STEREO CABLES

Single cable with 3.5mm (1/8") stereo cables. For audio or video equipment patching. Black cable with molded connectors. M = Male, F = Female.



WT: .12

STOCK #	DESC.	1EA	10+EA
11291-CB	12ft. 3.5mm M/F Cable	\$1.69	\$1.49
11292-CB	12ft. 3.5mm M/M Cable	\$1.69	\$1.49
11293-CB	6ft. 3.5mm M/M Cable	\$1.65	\$1.49

PREMIUM RGB CABLES

Premium Component Video (RGB) cable. 3 color coded video cables with OFC conductors, 93% Copper braid & 100% aluminum foil double shielding. 24kt gold plated Red, Blue & Green coded RCA Plugs with metal shells.



STOCK #	DESCRIPTION	WT.	1EA	5+EA
16901-CB	3ft. Prem. RGB Cable	1	\$24.95	\$23.95
16902-CB	6ft. Prem. RGB Cable	2	\$34.95	\$32.95
16903-CB	12ft. Prem. RGB Cable	3	\$37.95	\$36.95
16904-CB	25ft. Prem RGB Cable	5	\$49.95	\$47.95

DELUXE RGB CABLES

Heavy duty Component Video (RGB) cable. 3 color coded video cables with OFC conductors, 69% Copper braid & 100% aluminum foil double shielding. Molded strain relief, 24kt gold plated Red, Blue & Green coded RCA Plugs



STOCK #	DESCRIPTION	WT.	1EA	5+EA
16907-CB	6ft. H/D RGB Cable	2	\$34.95	\$32.95
16908-CB	12ft. H/D RGB Cable	3	\$37.95	\$36.95
16909-CB	25ft. H/D RGB Cable	5	\$49.95	\$47.95

DELUXE RGB/STEREO CABLES

Heavy duty Component Video (RGB) & Stereo cable. 3 color coded video and 2 Audio cables with OFC conductors, 86% Video/69% Audio Copper braid & 100% aluminum foil double shielding. Molded strain relief, 24kt gold plated Red, White, Blue & Green coded RCA Plugs



STOCK #	DESCRIPTION	WT.	1EA	5+EA
16912-CB	12ft. RGB/Stereo Cable	5	\$29.95	\$27.95
16913-CB	25ft. RGB /Stereo Cable	6	\$39.95	\$37.95

PICTURES ARE REPRESENTATIVE OF THE STYLE AND MAY NOT BE EXACT

VISIT WWW.MPJA.COM, ENTER STOCK # TO SEE ACTUAL PICTURE

HEAVY DUTY OFC AUDIO CABLES

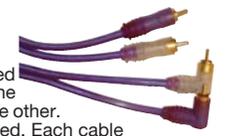
Heavy duty audio/video cable made with 99.96% Oxygen free copper wire. Copper braid & aluminum foil double shielding. 24kt gold plated RCA connectors are insulated with a shield to eliminate interference.



STOCK #	DESCRIPTION	WT.	1EA	10+EA
12625-CB	6ft. H/D Audio Cable	.37	\$6.95	\$5.59
12627-CB	20ft. H/D Audio Cable	1.1	\$14.79	\$12.95

STEREO AUDIO CABLES

Stereo cable with color coded RCA Right angle males on one end and straight males on the other. All connectors are Gold plated. Each cable is individually shielded. Ideal interconnect cable for car audio systems.



L: 3ft. WT: .3

STOCK #	DESC.	1EA	25+EA
15788-CB	3ft Gold Stereo Cable	\$1.95	\$1.75

THOUSANDS more Items on www.mpja.com

HDMI CABLES

HDMI (High Definition Multimedia Interface) cable with gold plated male connectors on both ends. Top quality signal for all Hi-Def. TV, Set Top cable boxes, recorder/players etc. Supports standard, enhanced, & High Definition video plus standard & surround sound.



STOCK #	DESC.	WT.	1EA
16861-CB	3ft. Hi Def. TV Cable	.8	\$16.50
16736-CB	6ft. Hi Def. TV Cable	1	\$19.95
16863-CB	9ft. Hi Def. TV Cable	1.5	\$22.50
16864-CB	12ft. Hi Def. TV Cable	2	\$26.95
16865-CB	15ft. Hi Def. TV Cable	2.5	\$39.95

HDMI/DVI ADAPTERS

HDMI/DVI Cable adapters with gold plated connectors. Top quality for the highest quality viewing.



WT: .1

STOCK #	DESCRIPTION	1EA	5+EA
16870-PL	HDMI-F to DVI-M	\$11.95	\$9.95
16871-PL	HDMI-M to DVI-F	\$11.95	\$9.95
16872-PL	HDMI-F to DVI-F	\$12.95	\$10.95
16873-PL	HDMI-M to DVI-M	\$11.95	\$9.95

HDMI COUPLERS



HDMI cable Gender changers/Couplers accessories. Top quality for the highest quality viewing.

L: 12" WT: .1

STOCK #	DESCRIPTION	1EA	5+EA
16875-PL	HDMI-F to HDMI-F	\$12.95	\$11.25
16876-PL	HDMI-M to HDMI-M	\$12.45	\$10.95
16877-PL	HDMI-F to HDMI-M	\$12.45	\$10.95

HDMI SPLITTER

HDMI signal splitter. HDMI Male connector with 1ft lead connects to 2 HDMI Females. Gold plated connectors.



L: 12" WT: .6

STOCK #	DESCRIPTION	1EA	5+EA
16880-PL	HDMI Signal Splitter	\$19.95	\$18.95

RG-58 CABLES WITH BNC CONN.

Cable with BNC Male connectors on both ends. Black with molded strain relief.



STOCK #	DESCRIPTION	WT.	1EA	10+EA
8011-CB	10ft 50ohm RG-58	1	\$3.95	\$3.49
8012-CB	25ft 50ohm RG-58	1	\$4.95	\$4.49
8013-CB	50ft 50ohm RG-58	1.5	\$8.95	\$7.49
8014-CB	100ft 50ohm RG-58	5	\$15.95	\$14.95

RG-59 CABLE WITH BNC CONN.

Convenient lengths of black 75 ohm RG-59 CCTV cables. With strain relieved male BNC connectors on both ends. Use to interconnect Cameras, Monitors, Switchers etc.



STOCK #	DESCRIPTION	WT.	1EA	25+EA
8952-CB	3ft. RG-59 Cable	.3	\$3.25	\$2.95
8953-CB	6ft. RG-59 Cable	.6	\$3.85	\$3.49
8954-CB	12ft. RG-59 Cable	2	\$4.50	\$3.95
8955-CB	25ft. RG-59 Cable	3.1	\$5.95	\$5.49
8956-CB	50ft. RG-59 Cable	4.2	\$8.95	\$7.95
12386-CB	100ft. RG-59 Cable	8.5	\$14.95	\$12.95

6FT HDMI CABLE

HDMI (High Definition Multimedia Interface) cable with gold plated male connectors and filters on both ends. Top quality signal for all Hi-Def. TV, Set Top cable boxes, recorder/players etc. Supports standard, enhanced, & High Definition video plus standard & surround sound.



STOCK #	DESC.	1EA
16921-CB	Hi Def. TV Cable	\$14.95

4m DVI CABLE

ULTRALINK Platinum Series, 13 ft. with a DVI-D (24+1, Dual Link-2X Digital cable) male connector on both ends. Dark Gray cable with Black molded connectors. Gold shells & Pins, Quad shielded, silver plated copper conductors, L: 13ft.



STOCK #	DESC.	1EA
18107-CB	UltraLink 13ft. DVI-D Cable	\$6.95

DVI/VGA ADAPTER

MFG: PULSE
DVI-A Male (12+5) to VGA DB-15HD Female molded adapter. Top quality for the highest quality viewing.



L: 1-7/8" WT: .075

STOCK #	DESC.	1+EA
18200-PL	DVI-VGA Adapter	\$11.95

1/8" PHONE AUDIO CABLES

Audio patch cables with 1/8" stereo phone plug connectors on both ends. Molded strain reliefs.
B: 5ft. Platinum jacket/Green Connectors/RFI Filter on ends
E: 6ft. Black jacket Blue & Green Connectors/RFI Filter on ends



WT: .13

STOCK #	DESC.	1EA	10+EA
15562-CB	(B) Platinum Jacket/Filters	\$1.29	\$1.09
15666-CB	(E) Black Jacket/Filters	\$1.29	\$1.09

UL LISTED COAX CABLES WITH "F" CONNECTORS

UL listed CATV cables. Convenient lengths of black RG-6 cable. With strain relieved male "F" connectors on both ends. Suitable for commercial installations. 64% braid & 100% foil shield.



STOCK #	DESCRIPTION	WT.	1EA	5+EA
5948-TV	15' UL RG-6 Cable	.7	\$2.99	\$2.49
5949-TV	25' UL RG-6 Cable	1	\$4.25	\$3.95
5950-TV	50' UL RG-6 Cable	2.2	\$7.50	\$6.95
5951-TV	75' UL RG-6 Cable	3.1	\$12.95	\$11.95
5952-TV	100' UL RG-6 Cable	4.2	\$13.95	\$12.95
5953-TV	150' UL RG-6 Cable	6.2	\$19.95	\$18.80

VGA TO RGB CABLE

VGA to RGB Component Video cable with DB-15HD male on one end and color coded RCA Plugs on other end.



STOCK #	DESC.	WT.	1+EA
17224-CB	6ft VGA to RGB Cable	.3	\$8.95
17225-CB	12ft VGA to RGB Cable	.6	\$12.95

VIDEO COAX TO UTP CONVERTER

Isolated balun converts video signals using coaxial cable to telcom UTP cable (CAT 3-5). Sends color video up to 1000ft or B/W up to 2000ft. Bandwidth 35Hz to 4.5MHz. Transpedance: 75ohm unbalanced to 100 ohm balanced. Use existing phone wiring to send video. Connects to RJ-45 pins 7&8. **1 needed at each end**



STOCK #	DESC.	1EA	5+EA
12238-ST	BNC-M to RJ-45	\$24.95	\$19.95
12239-ST	BNC-F to RJ-45	\$24.95	\$19.95
12240-ST	"F" Female to RJ-45	\$24.95	\$19.95

6FT DVI CABLE

6 ft. with a DVI-D ((18+1, Single Link-Digital cable) male connector on both ends. Gray cable with Gray molded connectors.



L: 6ft. WT: .44

STOCK #	DESC.	1EA
16594-CB	Gray 6ft. DVI-D Cable	\$2.95

6FT DVI CABLE

6 ft. with a DVI-D ((18+1, Single Link-Digital cable) male connector on both ends. Platinum cable with white molded connectors



L: 6ft. WT: .44

STOCK #	DESC.	1EA
16587-CB	Platinum 6ft. DVI-D Cable	\$1.25

6FT DVI CABLE

6 ft. with a DVI-D ((18+1, Single Link-Digital cable) male connector on both ends. Black cable with White molded connectors



L: 6ft. WT: .44

STOCK #	DESC.	1EA
15468-CB	Black 6ft. DVI-D Cable	\$2.95

CAMERA VIDEO/POWER CABLE

Siamese cable for cameras. Cable splits out 8" from ends into a video cable with a BNC male on one end and a RCA male on other and a power cable with a 2.1mm I/D coaxial power Plug on end (same end as video RCA) and a 2.5mm I/D power Jack on other. Includes a BNC Male to RCA Female adapter.



STOCK #	DESC.	WT.	1EA
15460-WI	25ft. Camera Cable	0.6	\$6.95
15461-WI	50ft. Camera Cable	1.8	\$9.95
15462-WI	100ft. Camera Cable	3.4	\$17.95
15463-WI	150ft. Camera Cable	4.9	\$20.95

DVI-VGA CABLE

6 ft. with a Male DVI-A (16+1, Single Link- Analog) connector on one end and a VGA Male DB-15HD connector on other (no Pin 9). Platinum cable with molded connectors and a ferrite suppressor on each end



L: 6ft. WT: .6

STOCK #	DESC.	1EA
17950-CB	Platinum 6ft. DVI-A/VGA Cable	\$9.95

QUICK CONNECT SPEAKER TERMINAL



2 or 4 position red & black terminal strip for speakers, audio equipment etc. Solder tabs on back.

WT: .03

STOCK #	DESC.	1EA	10+EA
4298-TS	2 Pos. Quick Connect	\$0.50	\$0.39
4297-TS	4 Pos. Quick Connect	\$0.79	\$0.59

CB/RADIO EXTENSION CABLES



10in. long, Small, flat pin extension cables. Male connector on one end, mating Female on other. Color coded wires.

.110" flat quick connect type Pins in plastic housing.

L: 10"

STOCK #	DESC.	WT.	1EA
17856-CB	3 Pin Extension Cable	.03	\$1.95
17858-CB	4 Pin Extension Cable	.05	\$1.95
17859-CB	6 Pin Extension Cable	.07	\$2.95
17860-CB	9 Pin Extension Cable	.09	\$4.59

CB/RADIO EXTENSION CABLES



10in. long, Round pin extension cables. Male connector with .084" O/D round on one end, mating Female on other. Color coded wires. Plastic housing.

L: 10"

STOCK #	DESC.	WT.	1EA
17861-CB	3 Pin Extension Cable	.033	\$2.95
17862-CB	6 Pin Extension Cable	.066	\$4.59
17863-CB	9 Pin Extension Cable	.10	\$6.95
17864-CB	12 Pin Extension Cable	.11	\$9.95
17865-CB	15 Pin Extension Cable	.13	\$12.95

CB/RADIO EXTENSION CABLE



10in. long, 3 conductor extension cables with .250" Quick connect type terminals. Male connector on one end, mating Female on other. Color coded wires. Plastic housing.

L: 10" WT: .06

STOCK #	DESC.	1EA
17857-CB	3 Pin Extension/Faston	\$4.95

20" SATA CABLE



MFG: FOXCONN
P/N: C95764
SATA Male/Male data cable for internal drive connection. Both ends have Latches.

L: 20" WT: .035

STOCK #	DESC.	1+EA
18201-CB	20" SATA Cable	\$2.95



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Full 360 Deg. Video of Items displaying these logos On-Line, in our Catalogs & Flyers.

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S-VIDEO CABLE



5ft-8in. platinum cable with a 4 pin mini DIN male connectors & ferrite filters on both ends. Quality cable with molded strain relief on connectors.

L: 5ft/8in WT: .22

STOCK #	DESC.	1EA
16236-CB	Platinum S-Video Cable	\$2.95

S-VIDEO & STEREO AUDIO CABLES



GE Ultra Prograde, Triple cable with a 4 pin mini DIN and 2 color coded RCA males on both ends. All connectors are Gold plated. Each cable is individually double shielded. Ideal interconnect cable for TV/Home theater system. Quality cable with molded strain relief on connectors.

L: 6ft. WT: .7

STOCK #	DESC.	1+EA
15994 -CB	6ft Audio/S-Video Cable	\$8.95

S-VIDEO CABLE



5ft-.8in. black S-Video cable with a 4 pin mini DIN male connectors & ferrite filters on both ends. Quality cable with molded strain relief on connectors.

L: 5ft/8in WT: .22

STOCK #	DESC.	1EA
16303-CB	Black S-Video Cable	\$2.95

S-VIDEO CABLE



6ft. cable with a Gold 4 pin mini DIN male on both ends. Ideal patch cord from DVD/Sat. receiver to your TV. Quality cable with molded strain relief on connectors.

L: 6ft. WT: .12

STOCK #	DESC.	1EA	5+EA
11052-CB	6ft S-VHS Cable	\$3.50	\$2.95

4 COND. MINI COIL CORD

High quality, super flexible, medical grade white coil cord designed for use as medical sensor leads. 12in. collapsed, 80in. extended. 4 color coded # 26 AWG stranded, copper conductors. Ideal for control systems, robots, alarms

L: 12" WT: .06

STOCK #	DESC.	1EA	10+EA
17574-CB	Mini Coil Cord	\$1.25	\$0.99

18AWG ALLIGATOR CLIP LEADS



Handy set of 2 Red, 2 Black & 1 Green clip leads. 18 AWG leads 20" long , with insulated alligator clips on each end For shop or lab.

L: 20" WT: .2

STOCK #	DESC.	1EA	10+EA
16050-TE	5pc. Clip Lead Set	\$1.65	\$1.25

7FT. CLIPEAD



7ft long SPT-2 18AWG ZIP cord. Black with wide Red stripe. Each end has 2" alligator clips with Red & Black covers.

L: 7ft. WT: .3

STOCK #	DESC.	1EA
17585-TE	7ft. Clip lead Pair	\$4.95

MAGNET WIRE



1/2 lb. Spools of quality Magnet wire. Designed for coils and transformers. Footage shown is approximate and may vary slightly

WT: .6

STOCK #	AWG	LEN.	DESCRIPTION	1EA	10+EA
8966-WI	30	1600	Mag Wire	\$19.95	\$18.95
7251-WI	28	1000	Mag Wire	\$17.95	\$16.95
7252-WI	26	600	Mag Wire	\$17.95	\$16.95
7253-WI	24	400	Mag Wire	\$14.95	\$13.95
7254-WI	22	250	Mag Wire	\$14.95	\$13.95
7255-WI	20	150	Mag Wire	\$14.95	\$13.95
7256-WI	18	100	Mag Wire	\$13.95	\$12.95
7257-WI	16	60	Mag Wire	\$11.95	\$10.95
7258-WI	14	40	Mag Wire	\$12.95	\$11.95

RIBBON CABLE



100ft rolls of multiconductor flat ribbon cable. .050" conductor spacing to match up to IDC connectors. Stranded, 28 awg, 105deg "C" 300 volt insulation. Gray PVC insulation with tracer on one edge. For SCSI, disc drive and other cables.

L: 100ft.

STOCK #	DESC.	WT.	1EA	5+EA
8566-WI	9 Conductor Flat	1.5	\$16.95	\$12.95
8568-WI	20 Conductor Flat	2.7	\$28.95	\$25.83
8569-WI	25 Conductor Flat	3.4	\$33.95	\$29.95
8570-WI	34 Conductor Flat	5	\$45.95	\$43.95
8571-WI	40 Conductor Flat	6	\$57.95	\$56.95
8572-WI	50 Conductor Flat	7	\$69.95	\$64.95

9V BATTERY CLIPS



Type A: Side exit, molded, 4" tinned red & black leads.
Type B: End exit, vinyl cover, 6" tinned red & black leads

WT: .004

STOCK #	DESC.	1EA	25+EA
6392-BT	Side Exit 9V Clip	\$0.25	\$0.22
2600-BT	End Exit 9V Clip	\$0.19	\$0.17

8FT, 20-2 AWG CUTOFF CORD



8ft, 20-2AWG SPT-1 ZIP cord for electronic equipment. One end cutoff other end has a 5.5mm O/D/ 2.5mm ID coaxial (Barrel) connector. Black with white tracer line.

L: 8ft WT: .17

STOCK #	DESC.	1EA
18012-WI	6ft. Cord/5.5/2.1mm Plug	\$1.95

POWER PLUG ADAPTER



Plastic body Barrel connector, 5.5/ 2.5mm Plug TO 5.5/2.1mm Jack Adapter.

L: 1-7/16" WT: .014

STOCK #	DESC.	1EA
17573-PL	5.5/2.5mm to 5.5/2.1mm Adapter	\$1.25

COAXIAL POWER JACK



Plastic, P.C. mount power connector. Designed for 5.5mm/2.1mm dia. power plugs. Solder terminals

WT: .004

STOCK #	DESC.	1EA	100EA
18027-PL	5.5/2.1mm Power Jack	\$0.49	\$0.39

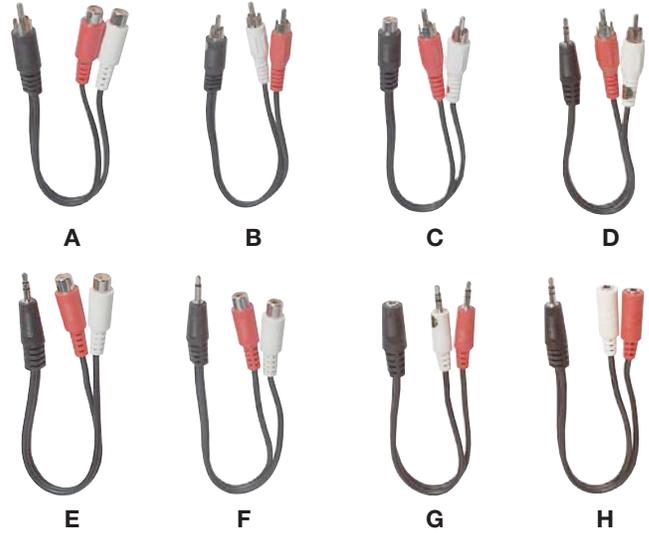
AUDIO ADAPTORS



WT: .01

STOCK #	FIG.	DESCRIPTION	1EA	10+EA
11295-AD	A	RCA Jack to RCA Jack	\$0.45	\$0.36
11296-AD	B	RCA Plug to RCA Plug	\$0.49	\$0.39
11297-AD	C	3.5mm Stereo Jack to 3.5mm Stereo Jack	\$1.95	\$1.59
11298-AD	D	3.5mm Mono Jack to 2.5mm Mono Plug	\$0.95	\$0.79
11299-AD	E	RCA Jack to 3.5mm Mono Plug	\$0.95	\$0.79
11300-AD	F	2X 3.5mm Stereo Jack to 3.5mm Stereo Plug	\$1.25	\$0.99
11301-AD	G	RCA Jack to 1/4" Mono Plug	\$0.75	\$0.59
11302-AD	H	1/4" Mono Jack to RCA Plug	\$0.95	\$0.79
11303-AD	I	3.5mm Mono Jack to RCA Plug	\$0.95	\$0.79
11304-AD	J	1/4" Mono Jack to 3.5mm Mono Plug	\$0.75	\$0.59
11305-AD	J	1/4" Stereo Jack to 3.5mm Stereo Plug	\$0.95	\$0.79
11306-AD	L	3.5mm Mono Jack to 1/4" Mono Plug	\$0.75	\$0.59
11307-AD	L	3.5mm Stereo Jack to 1/4" Stereo Plug	\$0.75	\$0.59
11308-AD	M	2X 1/4" Stereo Jack to 3.5mm Stereo Plug	\$1.75	\$1.39
11309-AD	N	2X 3.5mm Stereo Jack to 1/4" Stereo Plug	\$1.50	\$1.19
11310-AD	J	1/4" Stereo Jack to 3.5mm Mono Plug	\$0.95	\$0.79
11400-AD	O	3.5mm Mono to 3.5/1.3mm ID Coaxial Plug	\$1.50	\$1.25
11401-AD	P	3.5mm Mono to 6.5/3mm ID Coaxial Plug	\$1.50	\$1.19
15334-PL	Q	Red RCA Plug to Jack Rt. Ang Adapter	\$0.79	\$0.64
15335-PL	Q	Black RCA Plug to Jack Rt. Ang Adapter	\$0.79	\$0.64

AUDIO ADAPTOR & SPLITTER CABLES



WT: .05

STOCK #	FIG.	DESCRIPTION	1EA	10+EA
11420-AC	A	Black RCA Plug to Red/White RCA Jack (Y)	\$0.89	\$0.69
11421-AC	B	Black RCA Plug to Red/White RCA Plug (Y)	\$0.89	\$0.69
11422-AC	C	Black RCA Jack to Red/White RCA Plug (Y)	\$0.89	\$0.69
11423-AC	D	3.5mm St. Plug to Red/White RCA Plug (Split)	\$0.95	\$0.79
11424-AC	E	3.5mm St. Plug to Red/White RCA Jack (Split)	\$0.95	\$0.79
11425-AC	F	3.5mm Mno. Plug to Red/White RCA Jack (Y)	\$0.95	\$0.79
11426-AC	G	3.5mm St. Jack to Red/White 3.5mm St. Plug (Y)	\$0.95	\$0.79
11427-AC	H	3.5mm St. Plug to Red/White 3.5mm St. Jack (Y)	\$0.95	\$0.79

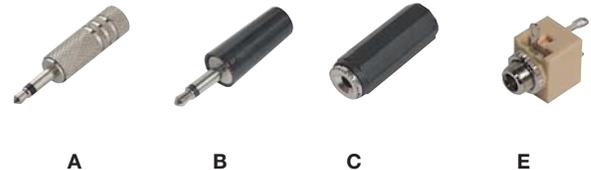
3 PIN XLR MIKE CONNECTORS



WT: .01

STOCK #	FIG.	DESCRIPTION	WT.	1EA	10EA
2983-PL	A	XLR Cable Male Mike Connector	.2	\$1.95	\$1.59
2971-PL	B	XLR Cable Female Mike Connector	.2	\$1.95	\$1.59
2972-PL	C	XLR Male Chassis Mike Connector	.2	\$2.25	\$1.79
3136-PL	D	XLR Female Chassis Mike Connector	.2	\$3.95	\$2.95
11403-PL	E	XLR Female to Female Inline Conn.	.15	\$4.45	\$3.59
11404-PL	F	XLR Male to Male Inline Conn.	.13	\$4.25	\$3.39
11405-PL	G	XLR Female to 1/4" Mono Plug	.1	\$4.25	\$3.39
11406-PL	H	XLR Male to 1/4" Mono Plug	.1	\$3.95	\$2.95

1/8" (3.5MM) PHONE PLUGS & JACKS



WT: .004

STOCK #	FIG.	DESCRIPTION	1EA	10EA	100+EA
2187-PL	A	Mono Plug Metal Back	\$0.52	\$0.43	\$0.35
1868-PL	B	Mono Plug Plastic Back	\$0.15	\$0.13	\$0.10
5514-PL	A	Stereo Plug Metal Back	\$0.64	\$0.53	\$0.43
4015-PL	B	Stereo Plug Plastic Back	\$0.37	\$0.31	\$0.25
1927-PL	C	Mono Jack Plastic Back	\$0.50	\$0.46	\$0.39
5515-PL	E	Stereo Enc. Panel Jack	\$0.38	\$0.32	\$0.25

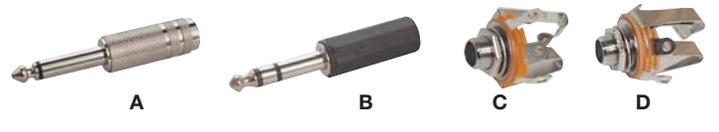
RCA CONNECTORS



WT: .004

STOCK #	FIG.	TYPE	DESCRIPTION	1EA	10EA	100+EA
4674-PL	A	Plug	Red Plastic Back	\$0.19	\$0.16	\$0.13
4675-PL	A	Plug	Black Plastic Back	\$0.19	\$0.16	\$0.13
5518-PL	B	Plug	Metal Back	\$0.57	\$0.47	\$0.38
5519-PL	C	Jack	Red Plastic Back	\$0.23	\$0.19	\$0.15
5520-PL	C	Jack	Black Plastic Back	\$0.23	\$0.19	\$0.15
5521-PL	D	Jack	Metal Back	\$0.76	\$0.63	\$0.51
5522-PL	E	Jack	Panel Mount	\$0.41	\$0.34	\$0.27

1/4" PHONE PLUGS & JACKS



A/C = Normally Closed Auxillary Tip Contact

WT: .02

STOCK #	FIG.	DESCRIPTION	1EA	10EA	100+EA
7236-PL	A	Mono Plug Metal Back	\$0.72	\$0.60	\$0.48
7237-PL	B	Mono Plug Plastic Back	\$0.48	\$0.40	\$0.32
7238-PL	A	Stereo Plug Metal Back	\$0.97	\$0.81	\$0.64
7239-PL	B	Stereo Plug Plastic Back	\$0.52	\$0.43	\$0.35
7242-PL	C	Stereo Panel Jack	\$0.79	\$0.66	\$0.53
7243-PL	D	Stereo Panel Jack A/C	\$0.93	\$0.78	\$0.62

7FT. RIGHT ANGLE IEC CORDSET



Removed from Equipment, 6ft, 18-3 AWG SVT platinum jacket, Right Angle power cord for electronic equipment. Standard 3 prong molded plug on one end, right angle IEC female on other end. Rated 120VAC 10A.

L: 7ft **WT: .4**

STOCK #	DESC.	1EA
17723-CB	7ft. Right Angle IEC Cord	\$2.45

2FT. IEC POWER CORD



24in. long 18-3 SJT cord set with molded std. hospital grade 3 prong AC plug on one end and std. IEC female IEC connector on other. Ideal for racks or benches with plug strips, No tangle of cords. Rated 10A/125VAC/1250W. CSA listed.

L: 26" **WT: .3**

STOCK #	DESC.	1EA
16996-CB	2ft. IEC Power Cord	\$2.50

6FT. RIGHT ANGLE IEC CSA CORDSET



Removed from Equipment, 6ft, 18-3 AWG SVT platinum jacket, Right Angle power cord for electronic equipment. Standard 3 prong molded plug on one end, right angle IEC female on other end. CSA listed. Rated 120VAC 10A.

L: 6ft. **WT: .34**

STOCK #	DESC.	1EA
17446-CB	6ft. CSA Right Angle IEC Cord	\$2.49

6FT. RIGHT ANGLE IEC CORDSET



Removed from Equipment, 6ft, 18-3 AWG SVT platinum jacket, Right Angle power cord for electronic equipment. Standard 3 prong molded plug on one end, right angle IEC female on other end. Rated 120VAC 10A.

L: 6ft. **WT: .34**

STOCK #	DESC.	1EA
17730-CB	6ft. Right Angle Cord	\$2.49

7FT. RIGHT ANGLE CSA CORDSET



Removed from Equipment, 7ft, 18-3 AWG SVT platinum jacket, Right Angle power cord for electronic equipment. Standard 3 prong molded plug on one end, right angle IEC female on other end. CSA listed. Rated 120VAC 10A.

L: 7ft. **WT: .4**

STOCK #	DESC.	1EA
17725-CB	7ft. Right Angle CSA IEC Cord	\$2.49

6FT. LAPTOP POWER CORD



6ft, 18-3 AWG power cord used with some desktop power supplies & equipment. Standard 3 prong molded plug on one end, IEC Class 1-C5 female (3 round sockets) on other end. SJT White jacket. Rated 120VAC 2.5A. CSA/VDE/CE Listed

L: 6ft **WT: .4**

STOCK #	DESC.	1EA	10+EA
17193-WI	6ft Laptop Cordset	\$2.95	\$2.49

6FT. UL 18-3 AWG IEC POWER CORD



6ft, 18-3 AWG power cord used in equipment. Standard 3 prong molded plug on one end, standard IEC female on other end. Black jacket. UL/CSA listed. Rated 120VAC 10A.

L: 6ft **WT: .4**

STOCK #	DESC.	1EA	10+EA
12943-CB	6ftUL IEC Cordset	\$2.49	\$2.25

1FT. IEC POWER CORD



1ft. long, 18-3 SVT, power cord for such items as computers, printers, equip. etc. Std. 3 prong plug on one end and std. IEC female on other. Ideal for racks or benches with plug strips, No tangle of cords. CSA listed.

L: 1ft **WT: .9**

STOCK #	DESC.	1EA	5+EA
14908-WI	1ft IEC Power Cord	\$2.25	\$1.99

10FT IEC POWER CORD



10ft, 18-3 AWG SJT Black jacket, power cord for electronic equipment. Clear hospital Grade, 3 prong molded plug on one end, standard IEC female on other end. CSA/CE listed.

L: 10ft **WT: .7**

STOCK #	DESC.	1EA
17605-CB	10ft IEC Black Cordset	\$4.95

6FT. IEC CLASS-1 POWER CORD



6ft, 18-3 AWG power cord used with some desktop power supplies & equipment. Standard 3 prong molded plug on one end, IEC Class 1 female -C5 (3 round sockets) on other end. SVT gray jacket. International Rating 120/220VAC/2.5A. North America rating: 120VAC/7A

L: 6ft. **WT: .4**

STOCK #	DESC.	1EA	10+EA
16225-WI	Gray Class1 Cordset	\$2.49	\$2.25

5.5FT. UL 18-3 AWG IEC POWER CORD



5-1/2ft, 18-3 AWG power cord used in equipment. Standard 3 prong molded plug on one end, standard IEC female on other end. Black jacket. UL/CSA listed. Rated 120VAC 10A.

L: 5-1/2ft **WT: .33**

STOCK #	DESC.	1EA
17415-CB	5.5ft. UL IEC Cordset	\$2.95

6FT. 18-2 AWG AUDIO EQUIP. CORD



6ft, 18-2AWG power cord. 2 blade polarized molded plug on one end, 2 pin keyed female notebook/laptop/Audio equipment plug on other. SPT-2 black jacket.

L: 6ft **WT: .25**

STOCK #	DESC.	1EA	5+EA
15009-CB	6ft Notebook Cord	\$1.49	\$1.25

3FT. POWER CORD



Removed from Equipment, 3ft, 18-2AWG power cord. 250VAC/2.5A Max. 2 blade Non-polarized molded plug on one end, IEC Class 2-C7, 2 pin female notebook/laptop/Audio/TV equipment plug on other. Black jacket. CSA Listed.

L: 3ft. **WT: .13**

STOCK #	DESC.	1EA
17108-CB	3ft. Class 2 Power Cord	\$0.69

POWER CORD SPECIAL



6ft, 18-3 AWG, black PVC jacketed power cords. Standard 3 prong male molded plug on one end, & 3 blade molded IEC female on the other. 120VAC 10A rated.

L: 6' **WT: .5**

STOCK #	DESC.	1EA	10EA	100EA
7378-WI	Power Cord Spec.	\$1.99	\$1.85	\$1.79

EQUIPMENT EXTENSION CABLE



Extension power cord with IEC Male on one end & IEC female on other. Use to extend monitors, computers etc.

WT: .5

STOCK #	DESC.	1EA	5+EA
18042-CB	4.5ft Black CSA IEC Ext.	\$1.95	----
18045-CB	6ft Plat. IEC Ext.	\$2.50	----
5075-CB	6ft Black IEC Ext.	\$2.25	\$1.79
12462-CB	6ft Black UL IEC Ext.	\$2.50	----
16772-CB	8ft Black UL IEC Ext.	\$2.95	\$2.75

6FT. LAPTOP POWER CORD



6ft, 18-3 AWG power cord used with some desktop power supplies & equipment. Standard 3 prong molded plug on one end, IEC Class 1-C5 female (3 round sockets) on other end. SVT Black jacket. Rated 120VAC 2.5A. UL/CSA Listed, RoHS.

L: 6ft **WT: .33**

STOCK #	DESC.	1EA	100+EA
18069-CB	6ft Laptop Cordset	\$1.49	\$1.25

5.5FT. REPLACEMENT CORDS



5-1/2ft, consumer power cord. 250VAC/4A Max. 2 blade Non-polarized molded plug on one end, 2 pin female notebook/laptop/Audio/TV equipment plug on other. Black jacket.

L: 5-1/2ft **WT: .25**

STOCK #	FIG	DESC.	1EA	5+EA
15447-CB	A	Rnd. Non-Polar Cord	\$1.25	\$0.99
15448-CB	B	Rnd. Non-Polar Cord	\$1.25	\$0.99
15449-CB	C	Polar Cord Set	\$1.25	\$0.99
15452-CB	F	Keyed TV Cord	\$1.25	\$0.99

10FT, 18-3 AWG IEC POWER CORD



10ft, 18-3 AWG SJT platinum jacket, power cord for electronic equipment. Hospital Grade 3 prong molded plug on one end, standard IEC class 1, female on other end. CSA listed. Rated 250VAC

L: 10ft **WT: .72**

STOCK #	DESC.	1EA	100+EA
16045-CB	10ft IEC Cordset	\$4.95	\$4.25

6FT. RIGHT ANGLE 14/3 CORDSET



6ft, 14-3 AWG SJT Black jacket, Right Angle power cord for electronic equipment. Standard 3 prong molded plug on one end, right angle IEC female on other end. Rated 15A/125VAC. UL/CSA listed.

L: 6ft. **WT: .7**

STOCK #	DESC.	1EA
18041-CB	6ft. UL Right Angle IEC Cord	\$4.95



HI-TEMP IEC CONNECTOR

Snap-in, Chassis mount, Black thermoplastic, 120/220 VAC @ 10A, IEC 60320/C-16 three wire primary power connector for High Temperature appliances. Rated for "HOT" use @ 120deg. "C". .250" quick connect terminals. UL/CSA listed 15A@250V/ VDE,TUV etc. listed 10A@250V
NOTE: Connector is "Keyed" for C-15 Plug & will not accept Std. C-13 Plug

W: 1-3/16"	H: 7/8"	D: 1-1/8"	WT: .016
STOCK #	DESC.	1EA	5+EA
17371-PL	High Temp. IEC Inlet	\$0.49	

P.C. MT. IEC POWER CONNECTOR



PC mount, white thermoplastic, 220 VAC @10A IEC 60320 type C-14 three wire primary power connector. 3 PC solder pins plus 1 ground solder lug for chassis connection. UL/CSA & major world agencies approved.

W: 1-1/4"	H: 15/16"	D: 1"	WT: .023
STOCK #	DESC.	1EA	5+EA
7954-PL	P.C. Mtg. IEC Inlet	\$0.50	\$0.39

IEC POWER INLET



IEC 60320 type C-14 Right Angle P.C. mount, power inlet. Rated: 15A @ 250VAC UL/CSA. Standard IEC equipment end male 3 blade cord connector. Solder terminals.

W: 2"	H: 1-1/16"	D: 1-1/16"	WT: .04
STOCK #	DESC.	1EA	5+EA
18022-PL	IEC P.C. Mount Power Inlet	\$0.79	

CIGARETTE ADAPTER CORD



Unfused cigarette lighter plug with 5ft ZIP cord and 5.5mm OD X 2.1mm ID coaxial plug. [L:] 5ft [WT:] .16

L: 6ft.	WT: .17	
STOCK #	DESC.	1EA
18021-CB	6ft. Cigarette Adapter Cord	\$3.95

CIGARETTE LIGHTER ADAPTER



Adapter has 3 built in LEDs showing battery status. Expands dash cigarette lighter socket to handle a cigarette lighter & 2 devices. Replaceable 10A fuse.

L: 5-1/4"	H: 3"	T: 1-1/4"	WT: .22
STOCK #	DESC.	1+EA	
18030-MI	3 Way Cigarette Lighter Adp.	\$5.95	

CABLE ORGANIZERS



10pcs. set of velcro cable tys. 6in. of Loop with 2in. of hook on reverse side used to organize all those Computer, or home entertainment cables and cords. Holds up to 1-3/4in. bundle.

L: 7"	W: 1"	WT: .06
STOCK #	DESC.	1EA
17881-TY	10 Pack Hook/Loop Ties	\$1.95

POWER STRIP



Surge protected plug strip with 6 120VAC, 15A, 3 wire grounded outlets, "on/off" lighted power switch, resettable circuit breaker, 4' heavy duty cord. Metal case. U/L listed

L: 12-1/2"	W: 2-7/8"	H: 1-1/2"	WT: 1.61
STOCK #	DESC.	1EA	5+EA
4372-MI	Protected Power Strip	\$12.95	\$12.25

6 WAY SURGE PROTECTOR



Wall mount surge protector. Protect electronic equipment from electrical spikes. Built in status indicator light. Clamp Volts: 400, U/L listed.

WT: .7			
STOCK #	DESC.	1EA	5+EA
4370-MI	6 Way Surge Protector	\$9.95	\$7.95

6 WAY SURGE PROTECTOR



Wall mount surge protector plugs into Duplex recp. 6 outlets protected L/N & L/Gnd. 1875 W max. Load. Protect electronic equipment from electrical spikes. Built in status indicator light. Clamp Volts: 330V. UL listed.

WT: .22			
STOCK #	DESC.	1EA	10+EA
18023-MI	6 Way Surge Protector	\$4.95	\$4.49

AUTOMOTIVE POWER ADAPTER



Cigarette lighter adapter cord set with cigarette plug on one end and a small 2 pin socket on other end for included adapter plugs.

Plugs: 5.5/2.5mm Red Tip
5.5/2.1mm Yellow Tip
3.5/1.35mm Black Tip
Replaceable 2A fuse.
NOTE: Plugs are reversible Watch your Polarity

L: 25in. collapsed/60+in. Ext.	WT: .14		
STOCK #	DESC.	1EA	25EA
17869-CB	Auto Power Adapter	\$2.95	\$2.49

CPU FAN POWER ADAPTOR



Use to remove 3 pin CPU fan connector from motherboard and connect it direct to your power supply. Standard large 4 pin drive M/F connectors to mini fan plug.

L: 2"tap / 6" Fan	WT: .02		
STOCK #	DESC.	1EA	25EA
12834-CB	CPU Fan Adapt. Cable	\$2.49	\$1.95

DSL CABLE



3-COM "Polarity" patch cable used to connect DSL Modem to Network RJ-45 plugs each end.

Wired:
Pin 1 to Pin 1 Pin 2 to Pin 2
Pin 3 to Pin 6 Pin 4 & 5 Open
Pin 6 to Pin 3
L: 6ft. WT: .12

STOCK #	DESC.	1EA
17754-TT	3-COM DSL "Polarity" Cable	\$0.59

SIGN-UP FOR OUR EMAIL SPECIALS ON MPJA.COM

12" STRAIGHT FAN CORD



18/2 ZIP Fan cord designed to plug onto most fans with .100in quick connect/solder terminals. Straight molded fan plug on one end.

L: 12"	WT: .03		
STOCK #	DESC.	1EA	12+EA
17178-FN	12" Straight Fan cord	\$0.89	\$0.79

12" ANGLED FAN CORD



18/2 ZIP Fan cord designed to plug onto most fans with .100in quick connect/solder terminals. 45 Deg. angled molded fan plug on one end.

L: 12"	WT: .03		
STOCK #	DESC.	1EA	12+EA
17180-FN	12" 45Deg. Fan cord	\$0.89	\$0.79

FAN CORD FOR 3 FANS



18/2 ZIP Fan cord designed to plug onto most fans with .100in quick connect/solder terminals. Three 90 Deg. angled molded fan plugs separated by 7-1/2 in. of cord. Bin. of pig tail to 1st. fan.

L: 24"	WT: .06	
STOCK #	DESC.	1EA
18057-FN	24" 90 Deg. 3X Fan cord	\$2.95

SURFACE MTG. DUAL JACK



Surface mount "Mod" RJ-11 jacks with internal block. Two jacks wired in parallel. For single line with two outlets.

WT: .01			
STOCK #	DESC.	1EA	2+EA
9233-TT	Dual Jack	\$3.25	\$2.95

"BEENIE" SPLICE



Standard 2-port UY splices 3-port UR crimp splices. Provides permanent gas tight connection for 19-26AWG solid conductor wire. Sold in pack of 100pcs.

WT: .3			
STOCK #	DESC.	1EA	5+EA
14444-TT	100pcs. "UR" Slice	\$12.95	\$10.95
14445-TT	100pcs. "UY" Slice	\$16.95	\$14.95

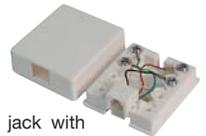
"MOD" CORD COUPLER



RJ-12 to RJ-12, (6X6) Telephone line cord coupler. Wired straight through. Ivory color.

WT: .02			
STOCK #	DESC.	1EA	10+EA
15474-TT	RJ-12 Straight Coupler	\$0.95	\$0.79

SURFACE MOUNT JACK



Surface mount RJ-11 "Mod" jack with internal terminal block.

WT: .09			
STOCK #	DESC.	1EA	2+EA
4230-TT	4 Wire Surface Jack	\$1.68	\$1.49
4231-TT	6 Wire Surface Jack	\$1.95	\$1.79

SPLITTER PANEL



CISCO P/NWS-F56K-48X2-SPLTR= for Catalyst 6500 systems. Dark Gray steel panel fits standard 19" racks. 48 Inputs X 96 Output Ports. Accepts std. Cat-5e RJ-45 plug & splits to 2 RJ-45 Output Jacks.
H: 3-1/2" (2U) **WT: 4**

STOCK #	DESC.	1EA
16769-TT	Cisco Splitter Panel	\$29.95

CAT-5 RJ-45 "MOD" CRIMP PLUGS



"Modular" RJ-45 plugs feature .35mm phor-bronze contacts with 50 u-inch gold over 50-100 u-in. nickel plated plating. For 24-28AWG solid/stranded wire. Conforms to FCC-68.5 requirements. UL Listed. 2 prong for medium duty use (2 point wire connection) 3 prong for heavy duty use (3 Point wire connection)
WT: .001

STOCK #	DESC.	1EA	25+EA
11118-TT	RJ-45 Stranded Wire	\$0.30	\$0.28
11119-TT	RJ-45 Solid Wire 2 Prong	\$0.35	\$0.33
11120-TT	RJ-45 Solid Wire 3 Prong	\$0.42	\$0.39

"Y" ADAPTERS



"Y" adapter allow multiple pieces of phone equipment to share one outlet. One "Mod" plug to "Mod" jacks. 6X4 RJ-11 jacks (4 Wire), 6X6 RJ-12 (6 Wire)
WT: .01

STOCK #	DESC.	1EA	10+EA
4225-TT	2 Way 6X4 Adapter	\$0.95	\$0.79
4226-TT	2 Way 6X6 Adapter	\$1.00	\$0.89
4909-TT	3 Way 6X4 Adapter	\$1.80	\$1.49

"Y" LINE SPLITTER

Splitter changes a RJ-11 4 X 6 "MOD" 2 line jack into 3 jacks. One jack has Line 1 & Line 2; second jack has Line 1 only and third jack has line 2 only.
WT: .01



STOCK #	DESC.	1EA	2+EA
5936-TT	"Y" Line Splitter	\$1.95	\$1.69

MODULAR PHONE CABLES



RJ-11(4X6) Mod cables made up in convenient lengths. Cross wired for telephone use; or parallel for data use.

STOCK #	LENGTH	DESC.	WT	1EA	10+EA
4241-TT	7ft	Phone	.1	\$1.45	\$1.29
4243-TT	14ft	Phone	.5	\$2.45	\$1.99
4244-TT	14ft	Data	.5	\$2.45	\$1.99
4245-TT	25ft	Phone	1	\$3.49	\$2.99
4246-TT	25ft	Data	1	\$3.49	\$2.99

CAT-5E CROSSOVER CABLE

14ft. Red Cat 5e, 10/100 Base-T Crossover wired (EIA/TIA568B) patch cable. For Uplink or Computer to computer link
Pinned as follows:

- 1-3 2-6
- 3-1 4-4
- 5-5 6-2
- 7-7 8-8



L: 14ft. **WT: .3**

STOCK #	DESC.	1EA
17580-TT	Cat-5e Crossover Cable	\$2.95

CAT- 5 PATCH CABLES

Flexible patch cables with RJ-45 (8X8) plugs. Straight wired to T568B ATT-258A standards. Gray jacket.



STOCK #	DESCRIPTION	WT.	1EA
16425-TT	30ft. Cat-5 Cable	.65	\$2.95
16426-TT	35ft. Cat-5 Cable	.75	\$3.49
16428-TT	45ft. Cat-5 Cable	.95	\$4.49
16429-TT	50ft. Cat-5 Cable	1.1	\$4.95



25FT. EXTENSION CORD

4 wire cords with "Mod" Plug on one end & either a single RJ-11 jack or a dual RJ-11 "Y" jack on other.
WT: .1

STOCK #	DESC.	1EA	2+EA
4912-TT	25 Ft Extender	\$2.50	\$2.25
4910-TT	25 Ft "Y" Extender	\$2.90	\$2.49



TYPE 66 PUNCH-DOWN BLOCK

Type 66M punchdown block for terminating 25 pair, multi-line phone cables. Also used for security systems & similar applications

Type 89 Plastic Mounting Bracket for 66M Block
WT: .5 Block .2 Support Bracket .001 Clips

STOCK #	DESC.	1EA	10+EA
7186-TT	66 Punch Down Block	\$21.95	\$21.45
7187-TT	Block Support Bracket	\$2.79	\$2.29
11080-TT	Bridging Clip	\$0.15	\$0.13

UL LISTED FLAT PHONE CABLE

Flat, UL listed multi conductor 26 AWG bulk pack cable. Used to interconnect phone equipment to wall jack, or handset to phone. Silver color. 1000ft put-ups only.



WT: 12lb/1000ft. 4 conductor

STOCK #	DESC.	1EA	5+EA
8349-WI	4 Cond. UL Cable	\$69.95	\$59.95

UL LISTED "MOD" CRIMP PLUGS



Cat-3 Standard crimp-on "Modular" plugs for Flat Cable.
WT: .001

STOCK #	DESC.	1EA	25EA	100+EA
6282-TT	6X4 RJ-11 Plug	\$0.20	\$0.11	\$0.10
6283-TT	6X6 RJ-12 Plug	\$0.22	\$0.16	\$0.13
6284-TT	8X8 RJ-45 Plug	\$0.35	\$0.20	\$0.19

ECONOMY "MOD" CRIMP PLUGS



Cat-3 Standard crimp-on "Modular" plugs. For flat cable Available for line or handset.
WT: .001

STOCK #	DESC.	1EA	25EA	100+EA
4236-TT	6X4 RJ-11 Plug	\$0.15	\$0.10	\$0.08
4237-TT	6X6 RJ-12 Plug	\$0.20	\$0.15	\$0.12
4238-TT	4X4 Handset Plug	\$0.20	\$0.15	\$0.12

CAT-5e CABLE

350MHz CAT-5e, Flexible patch cables with RJ-45 (8X8) plugs. Tested to T568 standards. Straight wired to T568B standards. UL listed.



L: 50ft. **WT: 1.2**

STOCK #	DESC.	1EA
17570-TT	50ft. Cat-5e Cable	\$3.99

CAT-5e PATCH PANELS

SIEMON P/N HD5-24, Category-5e UL/C SA verified & listed panel fits standard 19" racks. Black aluminum. 50 micro inch gold over 80 micro in. nickel plated RJ-45 contacts. For 22-26AWG solid wire. Solder plated Type 110 terminations. Conforms to FCC-68.5 requirements & EIA/TIA T568A & B wiring standards. Includes: Rear cable management steel bracket, Label bracket & lables, Rack screws
H: 1-3/4" (1U) **WT: 1.9**

STOCK #	DESC.	1EA
16422-TT	24 Port Cat5e Panel	\$19.95

CAT- 5E PATCH CABLES



Flexible patch cables with RJ-45 (8X8) plugs. Straight wired to T568B ATT-258A standards. 100% tested wire sequence & continuity. Verified to EIA/TIA Cat. 5E standards. Plugs feature 50 micro inch gold plated contacts. Conforms to FCC requirements

STOCK #	DESCRIPTION	WT.	1EA	10+EA
16931-TT	1ft. Yellow Cat-5e Cable	.03	\$0.49	\$0.45
16932-TT	1ft. Blue Cat-5e Cable	.03	\$0.49	\$0.45
16934-TT	3ft. Yellow Cat-5e Cable	.05	\$0.69	\$0.59
16935-TT	3ft. Blue Cat-5e Cable	.05	\$0.69	\$0.59
16461-TT	3ft. Gray Cat-5e Cable	.05	\$0.69	\$0.59
16937-TT	7ft. Yellow Cat-5e Cable	.1	\$1.25	\$0.99
16938-TT	7ft. Blue Cat-5e Cable	.1	\$1.25	\$0.99
16462-TT	7ft. Gray Cat-5e Cable	.1	\$1.25	\$0.99
17120-TT	14ft. Yellow Cat-5e Cable	.1	\$1.99	\$1.69
17121-TT	14ft. Blue Cat-5e Cable	.1	\$1.99	\$1.69
17122-TT	14ft. Gray Cat-5e Cable	.1	\$1.99	\$1.69
16943-TT	25ft. Yellow Cat-5e Cable	.4	\$2.99	\$2.69
16944-TT	25ft. Blue Cat-5e Cable	.4	\$2.99	\$2.69
16464-TT	25ft. Gray Cat-5E Cable	.4	\$2.99	\$2.69
16946-TT	50ft. Yellow Cat-5e Cable	.7	\$5.49	\$4.99
16947-TT	50ft. Blue Cat-5e Cable	.7	\$5.49	\$4.99
16465-TT	50ft. Gray Cat-5e Cable	.7	\$5.49	\$4.99
16949-TT	100ft. Yellow Cat-5e Cable	1.2	\$9.95	\$8.95
16950-TT	100ft. Blue Cat-5e Cable	1.2	\$9.95	\$8.95
16951-TT	100ft. Gray Cat-5E Cable	1.2	\$9.95	\$8.95

KEYSTONE VIDEO CONNECTOR

White snap in Keystone Bezels with a 75 ohm type "F" video female connector. For use in distribution systems using keystone style wall plates.



WT: .02

STOCK #	DESC.	1EA	6+EA
14477-TT	F Connector Keystone	\$1.95	\$1.75

FILTERED RJ-45 JACK

Corcom F9600D Single position, PC mount 8X8 contact (RJ-45) telephone modular jack. Ferrite beads on each contact and shield covers all but face & bottom. White plastic body & gold pins. Face fits in .6" sq. cutout. Plug fits Tab Down.



L: 15/16" W: 3/4" H 3/4" **WT: .022**

STOCK #	DESC.	1EA	25+EA
11438-TT	Filtered RJ-45 Jack	\$2.95	\$1.82

"B" SPLICES

Standard type "B" crimp splices. Provides permanent connection for phone or alarm wires.



WT: .001

STOCK #	DESC.	1EA	25EA	100+EA
5873-TT	"B" Splice	\$0.15	\$0.10	\$0.09

STANDARD DIN CABLE CONNECTORS



WT: .02

STOCK #	TYPE	DESC.	1EA	25EA	100+EA
5607-PL	Male	5 Pin 45°	\$0.42	\$0.35	\$0.28
5608-PL	Female	5 Pin 45°	\$0.63	\$0.53	\$0.42
5611-PL	Male	6 Pin	\$0.48	\$0.40	\$0.32
5612-PL	Female	6 Pin	\$0.72	\$0.60	\$0.48
5614-PL	Female	7 Pin	\$0.81	\$0.68	\$0.54
5615-PL	Male	8 Pin	\$0.56	\$0.46	\$0.37
5616-PL	Female	8 Pin	\$0.78	\$0.65	\$0.52

MINI DIN CABLE CONNECTORS



WT: .02

STOCK #	TYPE	DESC.	1EA	25EA	100+EA
5601-PL	Male	4 Pin	\$0.87	\$0.73	\$0.58
5602-PL	Female	4 Pin	\$1.12	\$0.93	\$0.74
5603-PL	Male	6 Pin	\$1.05	\$0.88	\$0.70
5604-PL	Female	6 Pin	\$1.26	\$1.05	\$0.84
5605-PL	Male	8 Pin	\$1.46	\$1.21	\$0.97

DUAL BINDING POSTS

Red & Black, safety binding posts accept banana plug in top or wire through hole in side. All front panel connections are recessed to prevent contact. Mounts in double .50" holes on .75" ctr. Solder terminals onback.



WT: .07

STOCK #	DESC.	1EA	10+EA
14492-PL	Dual BindingPost	\$1.95	\$1.75

DB CONNECTORS



WT: .05

STOCK #	DESC.	1EA	25+EA
2856-PL	DB-9 Male Solder	\$0.24	\$0.19
2857-PL	DB-9 Female Solder	\$0.28	\$0.24
5395-PL	DB-15 Male Hi Den.	\$0.69	\$0.59
5394-PL	DB-15 Female Hi Den.	\$0.59	\$0.49
2859-PL	DB-9 Plastic Hood	\$0.39	\$0.29
2860-PL	DB-15 Male Solder	\$0.45	\$0.36
2861-PL	DB-15 Female Solder	\$0.45	\$0.36
0133-PL	DB-15 Hood	\$0.75	\$0.59
2444-PL	DB-25 Male Solder	\$0.39	\$0.29
2445-PL	DB-25 Female Solder	\$0.49	\$0.39
2446-PL	DB-25 Plastic Hood	\$0.39	-----
2865-PL	DB-37 Male Solder	\$0.65	\$0.52
2866-PL	DB-37 Female Solder	\$0.65	\$0.52
0134-PL	DB-37 Hood	\$1.00	\$0.79
6949-PL	DB-50 Male Solder	\$1.95	\$1.59
6950-PL	DB-50 Female Solder	\$1.85	\$1.39
0136-PL	DB-50 Hood	\$1.25	\$0.95

IDC CONNECTORS



Insulation displacement header connectors. Gold plated, .025 square pins with .100 spacing.

WT: .03

STOCK #	DESC.	1EA	25+EA
0891-HC	10 (2X5) Socket Header	\$0.39	\$0.29
2882-HC	14 (2X7) Socket Header	\$0.39	\$0.29
0893-HC	16 (2X8) Socket Header	\$0.68	\$0.59
2883-HC	20 (2X10) Socket Header	\$0.75	\$0.59
0895-HC	26 (2X13) Socket Header	\$0.75	\$0.59
4709-PL	34 (2X17) Socket Header	\$0.45	\$0.32
2884-HC	40 (2X20) Socket Header	\$0.49	\$0.39
4710-PL	50 (2X25) Socket Header	\$0.49	\$0.39

BINDING POST/ BNC ADAPTER



Quality, test adapter features Dual Binding posts to a BNC Male connector. Binding posts have wire hole and accept Banana Plugs as well. Black Post is connected to BNC Shell & is marked "GND" while the Red Post is connected to BNC center pin.

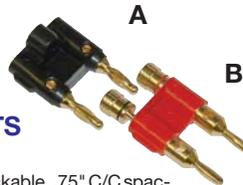
L: 2-3/8" Body

WT: .06

STOCK #	DESC.	1EA	10+EA
17579-PL	Binding Post to BNC	\$2.95	\$2.75

SIGN-UP FOR OUR EMAIL SPECIALS ON MPJA.COM

DUAL BANANA/BINDING POSTS



Quality, Gold plated, stackable, .75" C/C spacing. For test equipment & cables. Dual banana plug with: Binding Posts OR Set screws to attach wire, cable, component or spade lugs.

WT: .11 (Banana/Posts) WT: .03 (Banana only)

STOCK #	DESC.	1EA	10+EA
14901-PL	Red Dual Banana Plug A	\$1.25	\$0.99
14902-PL	Black Dual Banana Plug A	\$1.25	\$0.99
14903-PL	Red Dual Binding Post B	\$2.50	\$1.95
14904-PL	Black Dual Binding Post B	\$2.50	\$1.95

STEEL WALL PLATES

Steel wall plates fit standard duplex electrical box. For use in pre-wired or new installation. DOES NOT INCLUDE CONNECTOR



WT: .12

STOCK #	DESC.	1EA	5+EA
11290-MI	Double DB-25	\$1.95	\$1.59

DB 9 PC MOUNT CONNECTORS



Right angle PC mount connectors. Metal face, gold plated contacts. 3/4" from face to back.

WT: .02

STOCK #	DESC.	1EA	25+EA
4840-PL	DB-9 Female 90° Mount	\$0.45	\$0.41
4896-PL	DB-9 Male 90° Mount	\$0.45	\$0.41

DB CRIMP CONNECTORS

Metal face DB Housings for crimp pins (Not included)



WT: .1

STOCK #	DESC.	1EA	25+EA
16251-PL	DB-9 Male Crimp	\$0.59	\$0.49
16252-PL	DB-9 Female Crimp	\$0.59	\$0.49
16253-PL	DB-15 Male Crimp	\$0.69	\$0.59
16254-PL	DB-15 Female Crimp	\$0.69	\$0.59
16255-PL	DB-25 Male Crimp	\$0.69	\$0.59
16256-PL	DB-25 Female Crimp	\$0.69	\$0.59
16257-PL	DB-37 Male Crimp	\$1.19	\$0.99
16258-PL	DB-37 Female Crimp	\$1.19	\$0.99
16259-PL	DB-50 Male Crimp	\$2.99	\$2.79
16260-PL	DB-50 Female Crimp	\$2.99	\$2.79
16261-PL	DB-15 Male Hi Den.	\$0.79	\$0.69
16262-PL	DB-15 Female Hi Den.	\$0.79	\$0.69

DB CRIMP PINS



3 micro inch Gold over 50micro in. nickel for 24-28AWG Wire

STOCK #	DESC.	1EA	4+EA
16265-PL	Male Crimp Pin/100	\$4.99	\$4.49
16266-PL	Female Crimp Pin/100	\$4.99	\$4.49
16267-PL	Male Crimp Pin/5KReel	\$99.00	---
16268-PL	Female Crimp Pin/5KReel	\$99.00	---
16269-PL	HD Male Crimp Pin/100	\$4.99	\$4.49
16270-PL	HD Female Crimp/100	\$4.99	\$4.49
16271-PL	HD Male Crimp/5KReel	\$99.00	---
16272-PL	HD Female Crimp/5KReel	\$99.00	---

DB CRIMP PIN EXTRACTOR



Tool used to extract crimp pins from insertion type DB connectors. Double ended For Pin & Socket type connectors (16251-PL - 16262-PL)

WT: .03

STOCK #	DESC.	1EA
17124-TL	DB-Crimp Pin Extractor	\$4.75

DB CONNECTOR PIN CRIMP TOOL



Multi Purpose Crimp Tool Features: Cushioned Grips. Use: Crimping 14-26 AWG Wire, Open D-Sub Pins, Terminal Lugs

WT: .6

STOCK #	DESC.	1EA
11763-TL	DB- Pin Crimp Tool	\$9.95

DB CONNECTORS INSULATION DISPLACEMENT

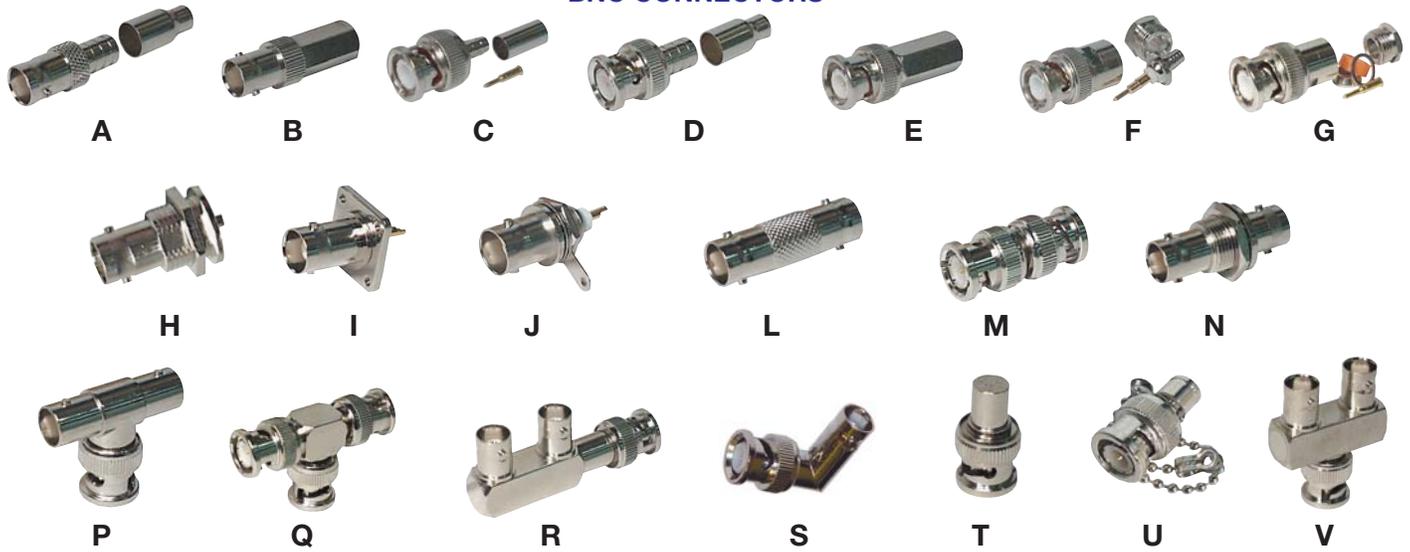
GOLD PLATED CONTACTS FOR .05" SPACING FLAT CABLE



WT: .1

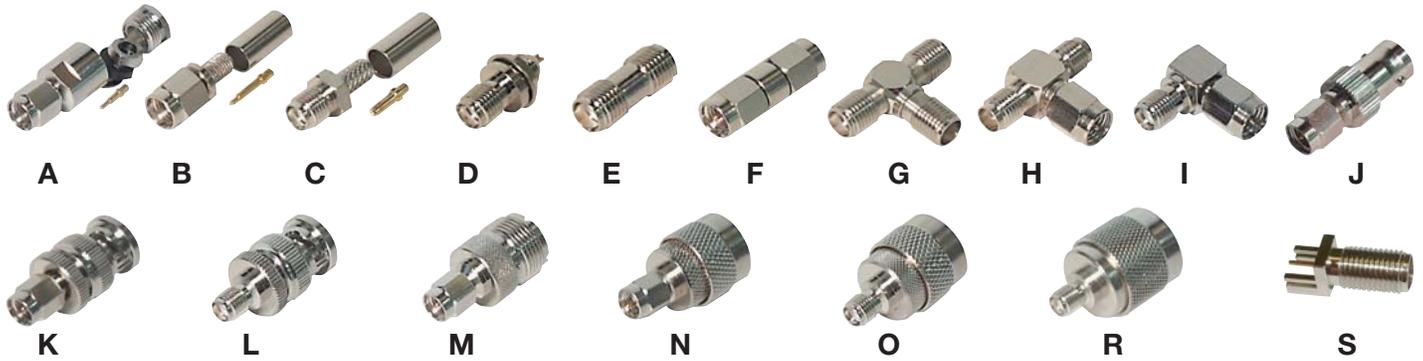
STOCK #	DESC.	1EA	25+EA
2870-PL	DB-9 Male IDC	\$1.95	\$1.59
2871-PL	DB-9 Female IDC	\$1.95	\$1.59
2872-PL	DB-15 Male IDC	\$2.25	\$1.79
2873-PL	DB-15 Female IDC	\$2.25	\$1.79
0922-PL	DB-25 Male IDC	\$1.50	\$1.19
0928-PL	DB-25 Female IDC	\$1.50	\$1.19

BNC CONNECTORS



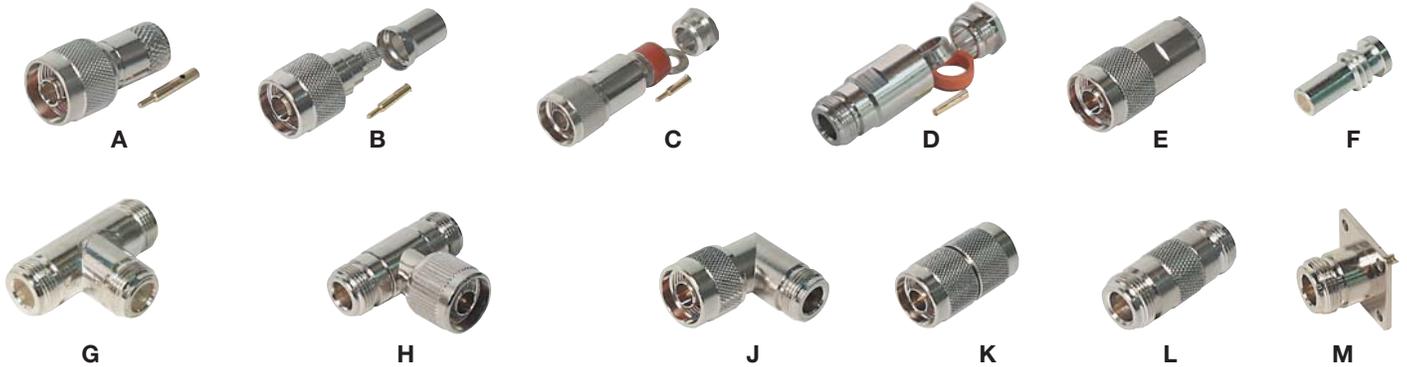
STOCK #	FIG.	TYPE	RG CABLE	DESCRIPTION	WT.	1EA	25+EA	100+EA
3999-RC	A		58	2 Piece Crimp BNC Female Connector	.02	\$1.25	\$0.99	\$0.89
4585-RC	A		59,62	2 Piece Crimp BNC Female Connector	.02	\$1.25	\$0.99	\$0.89
4586-RC	A		6	2 Piece Crimp BNC Female Connector	.02	\$1.25	\$0.99	\$0.89
4587-RC	A		Teflon 59, 62	2 Piece Crimp BNC Female Connector	.02	\$1.50	\$1.25	\$0.99
5416-RC	B		58	Twist-on BNC Female Connector	.02	\$1.65	\$1.39	\$1.25
5417-RC	B		59,62	Twist-on BNC Female Connector	.02	\$1.65	\$1.39	\$1.25
5418-RC	B		Teflon 59,62	Twist-on BNC Female Connector	.02	\$1.65	\$1.39	\$1.25
5401-RC	C		58	Standard 3 Piece Crimp BNC Male Connector	.02	\$1.25	\$0.99	\$0.89
5402-RC	C		Teflon 58	Standard 3 Piece Crimp BNC Male Connector	.02	\$1.25	\$0.99	\$0.89
5403-RC	C		59,62	Standard 3 Piece Crimp BNC Male Connector	.02	\$1.25	\$0.99	\$0.89
5404-RC	C		Teflon 59, 62	Standard 3 Piece Crimp BNC Male Connector	.02	\$1.25	\$0.99	\$0.89
5405-RC	C		6	Standard 3 Piece Crimp BNC Male Connector	.02	\$1.25	\$0.99	\$0.89
5406-RC	C		Belden 8281	Standard 3 Piece Crimp BNC Male Connector	.02	\$1.25	\$0.99	\$0.89
5426-RC	D		58	2 Piece Crimp BNC Male Connector	.02	\$1.20	\$0.99	\$0.89
5427-RC	D		Teflon 58	2 Piece Crimp BNC Male Connector	.02	\$1.20	\$0.99	\$0.89
5428-RC	D		59,62	2 Piece Crimp BNC Male Connector	.02	\$1.20	\$0.99	\$0.89
5429-RC	D		Stranded 59,62	2 Piece Crimp BNC Male Connector	.02	\$1.20	\$0.99	\$0.89
5430-RC	D		Teflon 59,62	2 Piece Crimp BNC Male Connector	.02	\$1.20	\$0.99	\$0.89
5431-RC	D		6	2 Piece Crimp BNC Male Connector	.02	\$1.45	\$1.25	\$1.15
5432-RC	D		Belden 8281	2 Piece Crimp BNC Male Connector	.02	\$1.49	\$1.25	\$1.10
5420-RC	E		58	Twist-on BNC Male Connector	.02	\$1.50	\$1.25	\$0.99
5421-RC	E		Teflon 58	Twist-on BNC Male Connector	.02	\$1.50	\$1.25	\$0.99
5422-RC	E		59,62	Twist-on BNC Male Connector	.02	\$1.50	\$1.25	\$0.99
5423-RC	E		Teflon 59,62	Twist-on BNC Male Connector	.02	\$1.50	\$1.25	\$0.99
5424-RC	E		6	Twist-on BNC Male Connector	.02	\$1.50	\$1.25	\$0.99
5425-RC	E		Belden 8281	Twist-on BNC Male Connector	.02	\$1.65	\$1.35	\$1.15
5412-RC	F		58	3 piece Solder BNC Male Connector	.02	\$2.35	\$2.15	\$2.05
5413-RC	F		59,62	3 piece Solder BNC Male Connector	.02	\$1.50	\$1.30	\$1.19
5414-RC	F		Teflon 59,62	3 piece Solder BNC Male Connector	.02	\$1.50	\$1.30	\$1.19
5433-RC	G		58	Standard Solder BNC Male Connector	.02	\$1.45	\$1.25	\$1.15
5434-RC	G		59,62	Standard Solder BNC Male Connector	.02	\$1.45	\$1.25	\$1.15
11517-RC	H		-	BNC Female Single Hole Panel Mount Wide Flange	.03	\$1.25	\$1.00	\$0.92
9224-RC	I	UG-290	-	BNC Female 4 Hole Panel Mount	.1	\$1.69	\$1.59	\$1.49
0507-RC	J	UG1094	-	BNC Female Single Hole Panel Mount	.1	\$1.00	\$0.89	\$0.79
0508-RC	L		-	BNC Adaptor 2 Female Connectors	.1	\$0.99	----	----
0509-RC	M		-	BNC Adaptor 2 Male Connectors	.1	\$1.95	\$1.79	\$1.60
0557-RC	N	UG492	-	BNC Bulkhead Mount 2 Female Connectors Not Isolated	.1	\$2.95	\$2.59	\$2.19
5435-RC	N	UG492	-	BNC Bulkhead Mount 2 Female Connectors Isolated	.1	\$3.35	\$2.79	\$2.25
0511-RC	P		-	BNC "TEE" 2 Female & 1 Male Connectors	.1	\$2.25	\$1.99	\$1.59
5437-RC	Q		-	BNC "TEE" 3 Male Connectors	.1	\$4.95	\$4.49	\$4.25
6518-RC	R		-	BNC LAN "TEE" 2 Female & 1 Male Connectors	.1	\$4.99	\$4.59	\$4.29
0510-RC	S	UG306	-	BNC "Elbow" 1 Female - 1 Male Connectors	.1	\$2.50	\$1.95	\$1.59
3131-PL	T		-	BNC Male 93 Ohm 1/2 Watt Terminator	.1	\$2.49	\$1.95	\$1.59
3137-PL	T		-	BNC Male 75 Ohm 1/2 Watt Terminator	.1	\$2.49	\$1.95	\$1.59
3138-PL	T		-	BNC Male 50 Ohm 1/2 Watt Terminator	.1	\$2.49	\$1.95	\$1.59
7547-RC	U		-	BNC Male 50 Ohm 1/2 Watt Terminator/4" Chain	.1	\$1.95	\$1.89	----
11564-RC	V		-	BNC Straight "TEE" 2 Female & 1 Male Connectors	.03	\$5.95	\$5.59	\$4.69

SMA CONNECTORS & ADAPTERS



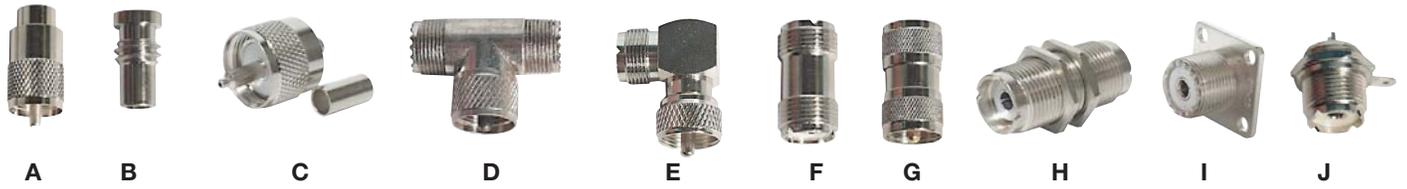
STOCK #	FIG.	RG CABLE	DESCRIPTION	WT.	1EA	25+EA	100+EA
11831-RC	A	RG-58A	Clamp type Male Connector, Teflon Insulator, Gold Plated Center Pin	.02	\$2.29	\$1.89	\$1.52
11833-RC	B	RG-58A	3 pc. Crimp type Male Connector, Teflon Insulator, Gold Plated Center Pin	.02	\$1.49	\$1.28	\$1.03
11834-RC	B	RG-59/62	3 pc. Crimp type Male Connector, Teflon Insulator, Gold Plated Center Pin	.02	\$1.49	\$1.28	\$1.03
11835-RC	C	RG-58A	3 pc. Crimp type Female Connector, Teflon Insulator, Gold Plated Center Pin	.02	\$1.39	\$1.15	\$0.93
11836-RC	C	RG-59/62	3 pc. Crimp type Female Connector, Teflon Insulator, Gold Plated Center Pin	.02	\$1.89	\$1.62	\$1.31
11837-RC	D		Panel Mount Female Connector, Teflon Insulator, Gold Plated Center Pin	.02	\$2.79	\$2.43	\$1.96
11838-RC	E		Female- Female Coupler, Teflon Insulator, Gold Plated Center Pins	.02	\$1.49	\$1.28	\$1.03
11839-RC	F		Male-Male Coupler, Teflon Insulator, Gold Plated Center Pin	.02	\$2.39	\$2.11	\$1.70
11840-RC	G		3 Female "TEE" Connector, Teflon Insulator, Gold Plated Center Pin	.02	\$3.75	\$3.20	\$2.58
11841-RC	H		1 Male-2 Female "TEE" Connector, Teflon Insulator, Gold Plated Center Pin	.02	\$3.75	\$3.20	\$2.58
11842-RC	I		Male- Female Right Angle Connector, Teflon Insulator, Gold Plated Center Pin	.02	\$3.39	\$2.75	\$2.22
11843-RC	J		Male SMA-BNC Female	.02	\$2.59	\$2.29	\$1.84
11844-RC	K		Male SMA-BNC Male	.02	\$3.29	\$2.75	\$2.65
11845-RC	L		Female SMA-BNC Male	.02	\$2.95	\$2.59	\$2.09
11846-RC	M		Male SMA-UHF Female	.02	\$2.99	\$2.65	\$2.13
11847-RC	N		Male SMA-UHF Male	.02	\$2.99	\$2.65	\$2.13
11848-RC	O		Female SMA-UHF Male	.02	\$2.99	\$2.65	\$2.13
11851-RC	R		Female SMA-"N" Male	.02	\$3.19	\$2.83	\$2.28
16722-RC	S		Female SMA-PC Edge Mtg. for .032" Stripline/PC Board	.007	\$2.79	\$2.53	\$2.19

"N" CONNECTORS



STOCK #	FIG.	TYPE	RG CABLE	DESCRIPTION	WT.	1EA	25+EA	100+EA
5445-RC	A	-	8,11,213,214	Twist-on "N" Male Connector	.05	\$3.25	\$2.95	\$2.25
5446-RC	B	-	8,11,213,214	3 pc Crimp-on "N" Male Connector	.05	\$4.95	\$4.75	\$4.59
5447-RC	B	-	59U	3 pc Crimp-on "N" Male Connector	.05	\$2.95	\$2.75	\$2.45
0533-RC	D	UG-23	8,11	Solder Type "N" Female Connector	.1	\$3.50	\$3.25	\$2.25
5582-RC	C	-	8,11	Silver Plated Solder Type "N" Male Connector	.1	\$4.75	\$4.50	\$4.20
4691-RC	F	-	Reducer For 58U	Silver Plated Adaptor RG-58 Cable to "N" Connector	.01	\$0.40	\$0.35	\$0.30
4692-RC	F	-	Reducer For 59U	Silver Plated Adaptor RG-59 Cable to "N" Connector	.01	\$0.40	\$0.35	\$0.30
5448-RC	E	-	-	50 Ohm Terminator "N" Male Connector	.1	\$3.95	\$3.69	\$2.95
0534-RC	G	UG-28	-	"N" "TEE" with 3 Female Connectors	.1	\$5.95	\$5.75	\$5.49
0517-RC	H	UG-107	-	"N" "TEE" 2 Female & 1 Male Connectors	.1	\$5.00	\$4.59	\$3.98
0516-RC	J	UG-27	-	"N" "Elbow" 1 Female & 1 Male Connector	.1	\$4.49	\$4.25	\$4.10
0515-RC	K	UG-57	-	"N" Adaptor with 2 Male Connectors	.1	\$2.95	\$2.77	\$2.59
0514-RC	L	UG-29	-	"N" Adaptor with 2 Female Connectors	.1	\$3.45	\$2.95	\$2.79
0513-RC	M	UG-58	-	"N" Female 4 Hole Panel Mount	.1	\$2.50	\$2.33	\$1.98

UHF CONNECTORS



STOCK #	FIG.	TYPE	RG CABLE	DESCRIPTION	WT.	1EA	25+EA	100+EA
0500-RC	A	PL-259	8,11,213,214	Solder Type UHF Male Connector with Plastic Insulator	.02	\$0.75	\$0.69	\$0.65
0525-RC	B	175		Reducer For 58U	.01	\$0.25	\$0.20	\$0.18
0524-RC	B	176		Reducer For 59U	.01	\$0.25	\$0.20	\$0.18
4690-RC	A	PL-259	8,11,213,214	Solder Type Silver Plated UHF Male Connector	.02	\$1.95	\$1.75	\$1.49
4691-RC	B	175		Silver Plated Adaptor RG-58 Cable to UHF Connector	.01	\$0.59	\$0.55	\$0.49
4692-RC	B	176		Silver Plated Adaptor RG-59 Cable to UHF Connector	.01	\$0.59	\$0.55	\$0.49
5438-RC	C	PL-259	58	2 Piece Crimp UHF Male Connector	.05	\$1.65	\$1.45	----
5439-RC	C	PL-259	59	2 Piece Crimp UHF Male Connector	.05	\$1.25	\$0.99	\$0.89
5441-RC	C	PL-259	Micro 8	2 Piece Crimp UHF Male Connector	.05	\$1.49	\$1.25	\$1.10
5442-RC	A	PL-259	58	Twist-on UHF Male Connector	.05	\$1.75	\$1.65	\$1.55
5443-RC	A	PL-259	59	Twist-on UHF Male Connector	.05	\$1.25	\$1.10	\$0.99
0505-RC	D	M-358	-	UHF "TEE" 2 Female-1 Male	.1	\$2.45	\$2.25	\$1.95
0504-RC	E	M-359	-	UHF "Elbow" 1 Female-1 Male	.1	\$2.00	\$1.79	\$1.59
0502-RC	F	PL-258	-	UHF Adaptor 2 Females	.1	\$1.25	\$1.10	\$0.99
0503-RC	G	DM-1	-	UHF Adaptor 2 Males	.1	\$2.49	\$2.35	\$2.25
0583-RC	H	363	-	UHF Threaded Bulkhead 2 Females	.1	\$3.95	\$3.75	\$3.45
0501-RC	I	SO-239	-	UHF Female 4 Hole Panel Mount	.1	\$1.25	\$1.10	\$0.99
5444-RC	J	-	-	UHF Female Single Hole Mount	.1	\$1.75	\$1.65	\$1.55

"F" TYPE CONNECTORS & ADAPTORS



Type "F" connectors & adaptors are used to match Antenna & Cable TV equipment to Audio/Visual Jacks on VCRs, Monitors, Switchers etc. WT: .01

STOCK #	FIG.	TYPE	CABLE	DESCRIPTION	1EA	10+EA
0538-RC	A	F-59	59U	Male Cable Attached 1/4 Ring	\$0.20	\$0.16
5450-RC	A	F-56	6U	Male Cable Attached 1/4 Ring	\$0.20	\$0.18
9231-RC	B	F-59	6U	Male Cable separate 1/4 Ring	\$0.17	\$0.16
9232-RC	B	F-59	59U	Male Cable separate 1/4 Ring	\$0.17	\$0.16
0563-RC	C	F-59T	59U	Male Cable Twist-on	\$0.35	\$0.29
5451-RC	C	F-56T	6U	Male Cable Twist-on	\$0.35	\$0.29
5453-RC	D		6U	Female Cable Attached 1/2 Ring	\$0.89	\$0.75
0588-RC	E		59U	Male Twist-on Quick Connect	\$0.35	\$0.29
5455-RC	F		59U	Male Quick Conn./Crimp Ring	\$0.49	\$0.39
0539-RC	G	F-61		Female Panel Mount with Nut	\$0.33	\$0.29
5454-RC	H	F-71		Male to Male In-line	\$0.69	\$0.55
0541-RC	K	F-81		Female to Female Bulkhead with Nut	\$0.49	\$0.39
6973-RC	L			Female PC Mount Rt Angle Long Thread	\$0.99	\$0.79
0586-RC	M			Male Quick conn. to Standard Female	\$0.50	\$0.39
7097-RC	N			Male to Female Right Angle Adaptor	\$0.75	\$0.59
0591-RC	O			Male to BNC Female Adaptor	\$1.50	\$1.19
0540-RC	P			Female to BNC Male Adaptor	\$1.30	\$0.95
0589-RC	Q			Female to RCA Jack	\$1.30	\$0.95
0590-RC	R			Female to RCA Plug	\$0.75	\$0.59
11448-RC	S			Male to RCA Jack	\$1.30	\$1.19
5456-RC	T			Male 75ohm Terminator 1/2W	\$0.33	\$0.29

BETWEEN SERIES ADAPTORS



Connectors & adaptors are used to match Transceivers, Antenna, Cable TV, etc to other various equipment.

STOCK #	FIG.	TYPE	DESCRIPTION	1EA	10+EA
0519-RC	A	UG255	BNC Male to UHF Female	\$2.50	\$1.95
7296-RC	B	-	BNC Male to UHF Male	\$4.95	\$4.65
0518-RC	C	UG273	BNC Female to UHF Male	\$1.95	\$1.65
7297-RC	D	-	BNC Female to UHF Female	\$2.95	\$2.75
0523-RC	E	UG349	BNC Male to "N" Female	\$3.95	\$3.65
0521-RC	F	UG201	BNC Female to "N" Male	\$2.50	\$1.95
0574-RC	G	-	BNC Female to "N" Female	\$4.95	\$4.75
11031-PL	H	-	1/8in Male to RCA Female	\$0.89	\$0.79
7298-RC	I	-	BNC Male to RCA Male	\$2.10	\$1.69
0548-RC	J	-	BNC female to RCA Male	\$1.30	\$0.95
0549-RC	K	-	BNC Male to RCA Female	\$1.25	\$0.95
0522-RC	L	UG83	UHF Male to "N" Female	\$3.95	\$3.65
0520-RC	M		UG146UHF Female to "N" Male	\$3.40	\$2.75
0547-RC	N	-	UHF Female to RCA Male	\$1.50	\$0.95
0546-RC	O	-	UHF Male to RCA Female	\$1.50	\$0.95
0578-RC	Q	-	TNC male to BNC Female	\$2.50	\$1.95
15336-RC	R	-	"N" male to "F" Female	\$3.25	\$2.50

RING CRIMP TERMINALS

RoHS Compliant
Vinyl Insulated



SOLD IN PACKS OF 100PCS.

STOCK #	STUD	WIRE AWG	WT.	1PK.	10+PK.
RED					
1721-TM	#6	18-22	.2	\$2.95	\$2.16
4422-TM	#8	18-22	.2	\$2.95	\$2.16
0372-TM	#10	18-22	.2	\$2.95	\$2.16
5733-TM	1/4"	18-22	.3	\$3.95	\$2.95
5734-TM	5/16"	18-22	.4	\$3.95	\$2.95
5735-TM	3/8"	18-22	.4	\$5.95	\$4.48
BLUE					
4423-TM	#6	14-16	.2	\$2.95	\$2.16
4424-TM	#8	14-16	.2	\$2.95	\$2.16
4425-TM	#10	14-16	.2	\$2.95	\$2.16
5736-TM	1/4"	14-16	.3	\$3.75	\$2.79
5737-TM	5/16"	14-16	.4	\$3.75	\$2.79
5738-TM	3/8"	14-16	.4	\$7.95	\$6.26
YELLOW					
4426-TM	#6	10-12	.4	\$4.95	\$3.79
4427-TM	#8	10-12	.4	\$4.95	\$3.79
4428-TM	#10	10-12	.4	\$4.95	\$3.79
5618-TM	1/4"	10-12	.4	\$5.95	\$4.70
5740-TM	5/16"	10-12	.6	\$5.95	\$4.70
5741-TM	3/8"	10-12	.6	\$5.95	\$4.70
5742-TM	1/2"	10-12	.7	\$14.95	\$11.17

INSULATED BUTT SPLICE

RoHS Compliant
Vinyl Insulated



SOLD IN PACKS OF 100PCS.

STOCK #	COLOR	WIRE AWG	WT.	1PK.	10+PK.
2020-TM	Red	18-22	.3	\$2.95	\$2.16
0222-TM	Blue	14-16	.3	\$2.95	\$2.16
4442-TM	Yellow	10-12	.5	\$4.95	\$3.69

MULTI-FEED BATTERY TERMINALS

Heavy Duty, 24K Gold Plated Battery terminals. 4 Output connections: One for up to 1/0 AWG, one for up to AWG 4 and 2 for AWG 8. Inner steps to allow insulation into block. Set screw clamps. Stamped "-".



WT: .45

STOCK #	DESC.	1EA	5+EA
14942-TM	NEG. Battery Terminal	\$4.99	\$4.75

DESIGNER BATTERY TERMINALS

TSUNAMI ACT Series. Designed for mobile audio. Pair of Competition class, Heavy Duty, Titanium plated Battery terminals with Gold Plated, Patented "LOK-NUT" compression wire connections, Gold plated Hex head battery terminal clamp bolt. Includes Gold plated wrench. 15906-TM: Tsunami P/N BT970
Connections: 1 each for 8, 4 & 1/0 AWG wire
15907-TM: Tsunami P/N BT974
Connections: 2 each for 8 & 4 AWG wire



WT: 1.9

STOCK #	DESC.	1EA	5+EA
15906-TM	Tsunami 970 Set	\$10.95	\$9.95
15907-TM	Tsumani 974 Set	\$10.95	\$9.95

CRIMP TERMINALS

SPADE CRIMP TERMINALS

RoHS Compliant
Vinyl Insulated



SOLD IN PACKS OF 100PCS.

STOCK #	STUD	WIRE AWG	WT.	1PK.	10+PK.
RED					
2134-TM	#6	18-22	.2	\$2.95	\$2.16
2135-TM	#8	18-22	.2	\$2.95	\$2.16
5754-TM	#10	18-22	.2	\$2.95	\$2.16
BLUE					
4429-TM	#6	14-16	.2	\$2.95	\$2.16
1723-TM	#8	14-16	.2	\$2.95	\$2.16
4430-TM	#10	14-16	.2	\$2.95	\$2.16
YELLOW					
4431-TM	#6	10-12	.4	\$4.95	\$3.79
4432-TM	#8	10-12	.4	\$4.95	\$3.79
4433-TM	#10	10-12	.4	\$4.95	\$3.79
5755-TM	1/4"	10-12	.6	\$7.95	\$6.95

MINI ALLIGATOR CLIPS

1-1/4" long, red or black insulated mini alligator clips. For test leads, clip leads, or test jigs.



L: 1-1/4"

WT: .007

STOCK #	DESC.	1EA	10+EA
7455-MI	Red Mini Gator Clip	\$0.25	\$0.19
7457-MI	Black Mini Gator Clip	\$0.25	\$0.19

ALLIGATOR CLIPS & BOOTS

Alligator clips with Red or Black Vinyl boot. Solder or crimp. mm listed is length of metal clip



STOCK #	DESC.	WT.	1EA	5+EA
16450-AL	27mm Clip Red	.003	\$0.10	\$0.05
16451-AL	27mm Clip Blk	.003	\$0.10	\$0.05
16452-AL	35mm Clip Red	.005	\$0.15	\$0.07
16453-AL	35mm Clip Blk	.005	\$0.15	\$0.07
16454-AL	45mm Clip Red	.009	\$0.19	\$0.09
16455-AL	45mm Clip Blk	.009	\$0.19	\$0.09
16456-AL	50mm Clip Red	.013	\$0.29	\$0.12
16457-AL	50mm Clip Blk	.013	\$0.29	\$0.12

BATTERY CLIPS & BOOTS

Handy mesh jaw, steel battery clip with insulated Red or Black Vinyl plastic boot. Amp listed is Max for part.



STOCK #	DESC.	WT.	1EA	5+EA
16437-BC	5A Clip Red	.015	\$0.25	\$0.15
16438-BC	5A Clip Black	.015	\$0.25	\$0.15
16439-BC	10A Clip Red	.05	\$0.35	\$0.25
16440-BC	10A Clip Black	.05	\$0.35	\$0.25
16441-BC	20A Clip Red	.03	\$0.40	\$0.30
16442-BC	20A Clip Black	.03	\$0.40	\$0.30
16443-BC	30A Clip Red	.04	\$0.45	\$0.35
16444-BC	30A Clip Black	.04	\$0.45	\$0.35
16445-BC	50A Clip Red	.06	\$0.59	\$0.49
16446-BC	50A Clip Black	.06	\$0.59	\$0.49

SIGN-UP FOR OUR EMAIL SPECIALS ON MPJA.COM

.250" FASTON CRIMP TERMINALS

RoHS Compliant
Vinyl Insulated



SOLD IN PACKS OF 100PCS.

STOCK #	TYPE	WIRE AWG	WT.	1PK.	10+PK.
RED					
4440-TM	.250 Male	18-22	.2	\$2.95	\$2.29
4434-TM	.250 Female	18-22	.2	\$2.95	\$2.55
5744-TM	.205 Female	18-22	.2	\$4.95	\$3.69
5745-TM	.187 Male	18-22	.2	\$4.95	\$3.77
5746-TM	.187 Female	18-22	.2	\$4.95	\$3.69
5747-TM	.110 Male	18-22	.2	\$4.95	\$3.69
2294-TM	.110 Female	18-22	.2	\$4.95	\$3.69
BLUE					
4441-TM	.250 Male	14-16	.25	\$2.95	\$2.29
4435-TM	.250 Female	14-16	.25	\$2.95	\$2.55
5748-TM	.205 Female	14-16	.25	\$4.95	\$3.69
5749-TM	.187 Male	14-16	.2	\$4.95	\$3.69
5750-TM	.187 Female	14-16	.2	\$4.95	\$3.69
5751-TM	.110 Male	14-16	.1	\$4.95	\$3.69
4954-TM	.110 Female	14-16	.1	\$4.95	\$3.69
YELLOW					
5753-TM	.250 Male	10-12	.4	\$6.95	\$5.25
5752-TM	.250 Female	10-12	.4	\$4.95	\$3.69

8AWG RING TERMINAL

Heavy duty ring terminal for #8AWG cable. Hole for #10 stud. Red plastic insulator.



L: 1-1/2" O/A W: 7/16"

WT: .007

STOCK #	DESC.	1EA
1888-TM	Long Tongue 8AWG Ring	\$0.10

COAXIAL POWER JACK

Plastic, P.C. mount power connector. Designed for 5.5mm/2.1mm dia. power plugs. Solder terminals



WT: .004

STOCK #	DESC.	1EA	100EA
18027-PL	5.5/2.1mm Power Jack	\$0.49	\$0.39

QUICK CONNECT TERMINAL STRIPS

2 or 4 position red & black terminal strip for Power supplies, audio equipment etc. Solder tabs on back.



WT: .03

STOCK #	DESC.	1EA	10+EA
4298-TS	2 Pos. Quick Connect	\$0.50	\$0.39
4297-TS	4 Pos. Quick Connect	\$0.79	\$0.59

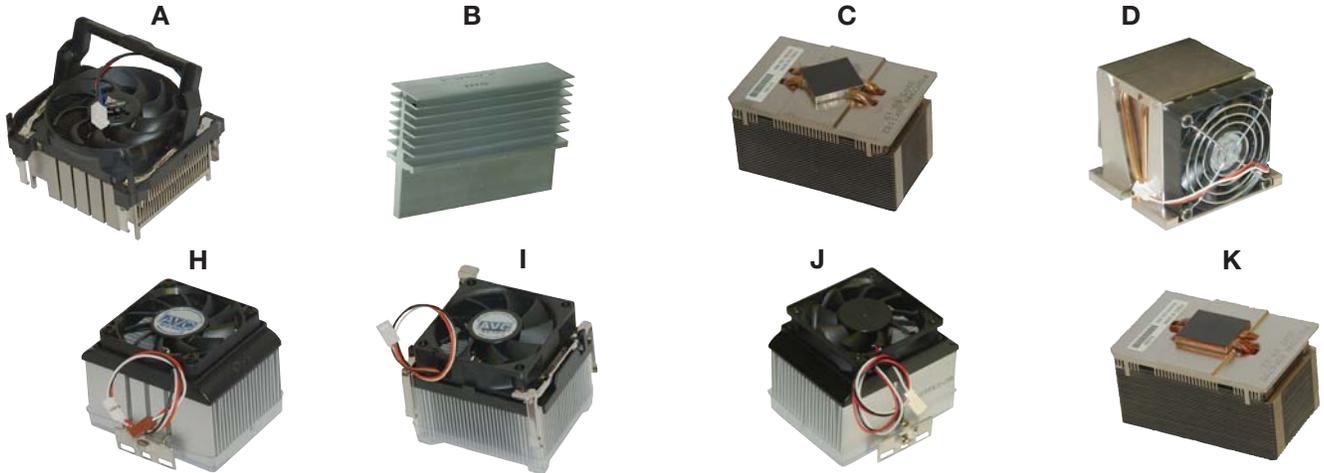
TEST HOOKS



Red & Black beryllium copper test hooks designed to clip to component leads leaving your hands free. 1-1/2" probe length, 2-1/4" long overall, 1/2" body Dia. Add your own wire for custom lengths. For lab, shop or school.

WT: 005

STOCK #	DESC.	1EA	25+EA
7161-MI	Red Component Clip	\$0.50	\$0.45
7163-MI	Black Component Clip	\$0.50	\$0.45



STOCK #	FIG.	FINISH	DISCRPTION	.DIM. L. X W: X H:	MANU./PART NUMBER	WT.	1EA	5+EA
16801-HK	A	Natural	IntelP4 Prescott Socket 478 Heatsink Assembly Aluminum sink/massive copper base, with 80mm Rnd. 12VDC fan with stall detection, 5" leads (for Sony VAIO & PCs with Socket 478 MotherBoard)	3-5/8" X 2-11/16" X 1-5/16"	Delta	1	\$6.95	\$5.95(10+)
18060-HK	B	Natural	Vertical mount, undrilled except for 2 threaded mounting holes in base. Approx. 4° C/W Thermal resistivity.	4" X 1" X 2-3/4"	AAVID	.4	\$3.95	----
17600-HK	C	Natural	Intel Pent-4&D /Celeron Socket 775 Heatpipe Assembly D945 Motherboards Aluminum sink/aluminum insert, 4 heatpipes	4-1/16" X 3-1/8" X 2-3/4"	FOXCONN/IBM/39K5052	.9	\$4.95	----
16249-HK	D	Natural	SUN® Java™ W1100Z & 2200Z CPU heatsink assembly Massive aluminum base, 40 fins & heavy aluminum top plate with twin heatpipes from bottom to top plate. includes 12VDC, 2-3/4" sq. fan	3-5/8" X 3-1/8" X 3"	P/N 240-4589-01	1.1	\$12.95	----
16802-HK	H	Natural	AMDDuron/Athlon 1.4/XP Socket A Heatsink Assembly Aluminum sink/copper insert, with 60mm sq. 12VDC/15+CFM fan with stall detection, 5" leads	3-1/8" X 2-1/2" X 2-1/2"	AVC	.63	\$7.95	----
16803-HK	I	Natural	Intel P4 2.8/Celeron 2.4 Socket 478 Heatsink Assembly Aluminum sink/copper insert, with 70mm sq. 12VDC/30+CFM fan with stall detection, 5" leads	3-1/4" X 2-11/16" X 2-11/16"	AVC	1.1	\$8.95	----
17045-HK	J	Natural	AMDDuron/Athlon XP2100/MP1200 Socket A Assembly Aluminum sink with Thermal pad. Attached 60mm sq. 12VDC/.1A 14+CFM fan with stall detection, 5" leads	3-1/8" X 2-1/2" X 2-1/2"	AVC/112C80FBL03	.63	\$4.95	\$3.95/25
17601-HK	K	Natural	Intel Pent-4&D /Celeron Socket 775 Heatpipe Assembly D915 Motherboards, Aluminum sink/Copper insert, Dual heatpipes	4-1/16" X 3-1/8" X 3"	FOXCONN/IBM/89K6796	1.2	\$4.95	----

CPU LIQUID COOLING SYSTEM

MFG: SANYO DENKI
P/N: 109-LC1-003
Input: 12VDC X 2
Fan: .25A Max.
Pump: .12A

Thermal Resistance: .22K/W HI/ .255K/W lo speed (for Ref: Std. Heatsink/Fan: ~.4K/W)
Self contained, Sealed Air/Liquid heat exchange CPU Cooler for Socket LGA775 P.C. motherboards provides 30%+ improvement over standard CPU fan/heatsink. System consists of Fan/Radiator/Pump assembly with Flexible plastic piping to nickel plated Copper Plate, includes metal CPU clamp.
Variable speed fan Rated 2400RPM Max @ 42db noise above 35deg. "C", 1300RPM Min. @ 28db noise below 25 deg. "C".
Radiator: Aluminum multi Fin & tube. 6-1/4" X 6-1/2" X 1/2" O/A: 6-7/8" X 7-3/4" X 3"
Cold Plate: 2-1/8" X 1-3/4"
Tubing: Fluoropolymer 8" long.
NOTE: DESIGNED TO FIT A SPECIAL TOWER CASE MAY REQUIRE MODIFICATIONS TO YOUR CASE
No Case hardware supplied



360° WEB

WT: 2.9

STOCK #	DESC.	1EA
17515-HK	CPU Cooler Assembly	\$59.95

FRONT SURFACE MIRROR ASSEMB.

Removed from new equipment. Assembly with 2 front surface mirrors that measure 6-1/4" X 1" X 3/16" thick. Steel frame with plastic hardware. Removeable mirrors held in place by spring clips & glue.
L: 8-3/4" O/A W: 2-1/2" O/A H: 2" O/A WT: .6



STOCK #	DESC.	1EA
17368-MI	Dual F/S Mirror Assembly	\$3.95

21RPM 12V MOTOR

MFG: BUEHLER
P/N: 1.61.031.111.06
COIL: 12VDC
USED, 90deg. angled gearhead DC motor rated: 10/21/42RPM @ 6/12/24VDC. 300mA No Load/4.5A Stall @ 12VDC. 8mm dia. X 50mm removable/Reversible steel shaft held in place by a collet. Removable sheet metal mtg. bracket. 5" leads.
L: 6-3/8" (OA) W: 4-1/4" H: 4-1/8" WT: 2.8



STOCK #	DESC.	1EA
16779-MD	12V 21 RPM Buehler Motor	\$29.99

12/24VDC MOTOR

MFG: BUHLER
P/N: 1.13.043.223.12
COIL: 12V
Rated: 1100 RPM @ 12VDC NL, 2140 RPM @ 24VDC. 4mm dia. X 20mm steel front shaft with pressfit 14mm dia. X 13mm 16 tooth brass gear. 3 M3 threaded mounting holes in front. 3" leads.
L: 3-1/8" (Body) DIA: 1-9/16" WT: 1



STOCK #	DESC.	1EA
16717-MD	12/24VDC Buhler Motor	\$16.95

3.6V 1.8DEG. STEPMOTOR

MFG: ORIENTAL MOTOR
P/N: VEXTA PK266-02A
COIL: 3.6V/2A/1.8ohms/2.5mH
TYPE: 2 Phase Uni-Polar 6 lead
STEP ANGLE: 1.8 deg (Motor)
127oz/in holding torque, 1/4" X 3/4" flattened steel shaft. 4 corner bolt holes. 12" leads. Can be connected as Bi-Polar.
L: 2-3/16" Body Sq.: 2-3/16" WT: 1.6

360° VIEW @MPJA.COM



STOCK #	DESC.	1EA	10+EA
17748-MS	3.6VDC Stepmotor	\$12.95	\$9.95

18VDC 140RPM MOTOR

MFG: BUEHLER
P/N: 1.61.065.344-4
COIL: 18VDC
Gearhead DC motor rated 140RPM @ 18V. 3mm dia. X 10mm flattened steel shaft. 3 mounting holes threaded M3. 7" wire leads.
L: 2" (Body) W: 1-1/8" H: 1-9/16" WT: .35



STOCK #	DESC.	1EA
16070-MD	18VDC 140RPM Motor	\$15.00

12V 40 RPM MOTOR

MFG: BUEHLER
P/N: 1.61.046.116.00
COIL: 12-24VDC
Gearhead DC motor rated 81RPM @ 24V/40RPM @ 12V 5mm dia. X 30mm steel shaft with a 20mm, 16 tooth, plastic gear held by a roll pin. Removable heavy steel bracket & non-removable cast metal secondary bracket with four 6-32 threaded mounting holes. 3" leads.
L: 3-1/2" (Body) Dia: 1-3/8" WT: .56



STOCK #	DESC.	1EA
16816-MD	12V/40RPM Gear Motor	\$19.95

13.6 VDC MOTOR

Johnson 13.6VDC motor with Bronze sleeve bearings. Used in tools & appliances etc. 6290+RPM, .32A, no load, @ 13.6V. MaxTorque: 6.15oz/in @ 13.6V/3.6A 1/8" [Dia.] X 5/8" serated steel shaft. Solder terminals.
L: 2-3/8" (Body) Dia: 1-1/2" WT: .37



STOCK #	DESC.	1EA
17942-MD	13.6VDC/6290RPM Motor	\$3.95

DOUBLE ACTION SHORT ROD CYLINDER



MFG: Bimba
BORE: 3/4"
USED: Double action, Stainless steel tube, aluminum heads air cylinder. 200 PSI max pressure. 1/4" Dia. steel rod X 1/2" (retracted) with 1/4-28 thread. Front mount 5/8"-18 threaded. Sorry, No Mtg. Nuts

PORTS: 1/8" NPT
STROKE: 3/4"

L: 4-1/2" Body DIA: 13/16" WT: .2

STOCK #	DESC.	1EA	5+EA
8851-HD	Pneumatic Cylinder	\$4.95	\$3.95

SINGLE ACTION SPRING LOADED CYLINDER



MFG: Bimba
BORE: 1-1/2"
USED: Single action, Spring loaded Retract, pressure extend. Stainless steel tube, aluminum heads, air cylinder. 200 PSI max pressure. 7/16" Dia. steel rod X 1" (retracted) with 7/16-20 thread. Front mount 3/4"-16 threaded. 12 lbs to compress spring. Sorry, No Mtg. Nuts

PORTS: 1/8" NPT
STROKE: 3/4"

L: 4-3/4" Body DIA: 1-5/8" WT: .8

STOCK #	DESC.	1EA	5+EA
8850-HD	Pneumatic Cylinder	\$4.95	\$3.95

SINGLE ACTION SPRING LOADED CYLINDER



MFG: Bimba
BORE: 1-1/2"
USED: Single action, Spring loaded extension, pressure retract. Stainless steel tube, aluminum heads, air cylinder. 200 PSI max pressure. 7/16" Dia. steel rod X 1-3/4" (extended) with 7/16-20 thread. Front mount 3/4"-16 threaded. 12 lbs to compress spring. Sorry, No Mtg. Nuts

PORTS: 1/8" NPT
STROKE: 7/8"

L: 4-3/4" Body DIA: 1-5/8" WT: .8

STOCK #	DESC.	1EA	5+EA
8849-HD	Pneumatic Cylinder	\$4.95	\$3.95

3 OUTPUT GEARMOTOR ASSEMBLY



115V AC gearmotor assembly with 3 output shafts: Shaft #1: 410 RPM, 6mm Dia. X 11/16 long, offset from case 9/16", CCW rotation as viewed from shaft end Shaft #2: 195 RPM, 6mm Dia. X 13/16 long, offset from case 1/8", with flat, CCW rotation Shaft #3: 180 RPM, 6mm Dia. X 11/16 long, offset from case 1/8", with flat, CW rotation Cast aluminum motor/gear housing with steel cover on gear case. Fan on back shaft, 10in leads.

L: 7" O/A W: 6-1/2" O/A H: 6-1/4" O/A WT: 6.5

STOCK #	DESC.	1EA
15639-MA	3 Shaft Gearmotor Special	\$4.95

"PICKER" MOTOR ASSEMBLY



USED Motor assembly with a Buehler 1.16.025.031.00 motor driving a 6 piece plastic gear train. Center driven, 6-7/8" long output shaft drives two 1-5/16" Dia. off center plastic cams attached near ends. Approx. 116 RPM @ 12VDC. 5-1/4" C/C distance on cams. We guess that it was part of a paper feed.

W: 6-7/8" O/A L: 3-1/2" H: 2-1/2" WT: .34

STOCK #	DESC.	1EA	10EA
17266-MD	"Picker" Motor Asm.	\$12.95	\$9.95

3.84V STEPMOTOR



MFG: SHINANO KENSHI
P/N: STP-57D211
COIL: 3.84VDC/4.7 ohms/.8A
TYPE: 2 Phase Uni-Polar 5 lead
STEP ANGLE: 1.8 deg (Motor)
6.5mm dia. X 18mm steel shaft with a 3/4" dia., 16 tooth, plastic cog belt gear attached by a steel roll pin. Ball bearings, 3" leads, 4 corner mounting holes. Removable anti vibration rubber/steel mtg. bracket. 4" leads.

L: 2" Body Sq.: 2-3/16" WT: 1.5

STOCK #	DESC.	1EA
17607-MS	3.84VDC Stepmotor	\$9.95

24VDC RUNNING TIME METER



ENM T33 series low power, Non-Resettable Time meter. 7digit, crystal controlled impulse counter. Black Face with White & Red numbers, Max 99999.99 hrs. 24VDC Operation, 10mW draw. Snap-in, front mounts in 1.18" X .51 cutout. 11" leads

W: 1-1/4" H: 9/16" D: 1-7/16" WT: .05

STOCK #	DESC.	1EA	5EA
17906-MI	24VDC ENM Time Meter	\$14.95	\$12.95

SUSPA P/N C16-09786 gas extension spring. Used to lift & support equipment hoods & doors, car hoods & trunk lids. Ball pivot on both ends, threaded 1/4-20 Center -to-center Extended length: 19.7in. Center -to-center Compressed length: 11.8in Extension Force: 30lbs.

WT: .8

STOCK #	DESC.	1EA	10+EA
16694-HD	Suspa Gas Spring	\$3.95	\$3.50

12VDC MOTOR

MFG: FUJI
P/N: FM-43E
COIL: 12V
4600 RPM @ 12VDC, 2800 RPM @ 6VDC. 4mm dia. X 10mm steel front shaft. 3 threaded mounting holes in front. 3" leads.

L: 3" (Body) DIA: 1-3/8" WT: .4

STOCK #	DESC.	1EA	10+EA
15581-MD	12VDC FUJI Motor	\$9.95	\$8.95

3.3V STEP MOTOR ASSEMBLY

MFG: JAPAN SERVO
P/N: KP-56LM2G-001
COIL: 3.3VDC/2.2A
TYPE: 2 Phase Uni-Polar 6 lead
STEP ANGLE: 1.8 deg (Motor) .1deg. Output (18/1) Step motor, gear box assembly with brake. Apply 24VDC to release brake (removable). Motor side 13/32" dia. X 9/16" steel shaft with coupling (held by roll pin), 6" leads, Removable steel mtg. bracket.

L: 4-1/2" (Body) W: 3-1/2" H: 4-1/4" WT: 2.6

STOCK #	DESC.	1EA	10+EA
16237-MS	Step Motor Assembly	\$16.95	\$15.95

24VDC IMPULSE COUNTER

HANG ZHOU P/N DJ625, non-resettable, 6 Digit, impulse counter. Rated 24VDC/.6W/10CPS. Plastic case snap-in mounts into a 1" X 17/32" cutout. 12in. leads. All have a couple of test counts on them

W: 1-1/16" H: 7/8" D: 1-3/8" WT: .04

STOCK #	DESC.	1EA	25+EA
16521-MI	24VDC Counter	\$1.95	\$1.50

24VDC IMPULSE COUNTER

TAMURA ot 6 Digit, non-resettable 24VDC impulse counter. Plastic case snap-in mounts into a 1" X 17/32" cutout. 4in. leads. All are set around 999XXX to allow testing of equipment once installed.

W: 1-1/16" H: 7/8" D: 1-3/8" WT: .04

STOCK #	DESC.	1EA	5+EA
15551-MI	Tamura Counter	\$3.95	\$3.50

GAS SPRING



5V DC STEP MOTOR WITH LEADSCREW

MFG: HSI
P/N: 20841-05-028
TYPE: 2 Phase Bi-Polar 4 lead
COIL : 5VDC/18ohms/5.5mH/.27A
LINEAR STEP: .001
Linear actuator/step motor with rotating, 9/64" (.140") Dia. X 2-5/8" steel shaft. 1-1/4" max travel. 1-3/64" (1.031") mounting ctrs. 20" leads. Shaft end thread: 2-56 UNC 2A X .15" long

L: 3-1/2" O/A W: 1-5/16" O/A WT: .06

STOCK #	DESC.	1EA
17284-MS	HSI 5V Linear Actuator	\$9.95

12V @ 225RPM GEARHEAD MOTOR

MFG: BUEHLER
P/N: 1.61.046.514.01
COIL: 12-24VDC
USED, Gearhead DC motor rated: 450RPM @ 24V, .08A NL, 1.5A Stall 225RPM @ 12V, .06A NL, .8A Stall 5mm dia. X 13mm flattened steel shaft. 3 metric (M3) threaded mounting holes. 3" leads.

L: 2-3/4" (Body) DIA: 1-3/8" WT: .4

STOCK #	DESC.	1EA	10EA
17131-MD	225RPM/12V Motor	\$14.95	\$12.95

MOTOR/GEAR ASSEMBLY

MFG: SHINANO KENSHI
P/N: STP-57D505
COIL: 5.3VDC/1A
TYPE: 2 Phase Uni-Polar 5 lead
STEP ANGLE: 1.8 deg (Motor)
Assembly#: 127K18074
Step motor & gear assembly for copy machine. Motor has 7mm steel shaft with a pressed on aluminum spur gear. Removable gear unit contains 5 various plastic gears, 2 have mechanical unidirectional clutch. 5in.

Motor: L: 3" Sq.: 2-1/4" WT: 2.3
Assembly: L: 4-3/4" W: 5-1/4" H: 2-7/8" WT: 2.9

STOCK #	DESC.	1EA
17461-MS	Stepmotor Assembly	\$14.95

MOTOR/GEAR ASSEMBLY

MFG: BUEHLER
P/N: 1.13.022.212.04
COIL: 12-24VDC
USED DC motor assembly rated: Approx. 104RPM @ 24V, .05A NL, 1.7A Stall 51 RPM @ 12V, .04A NL, .86A Stall
Motor assembly with brass worm gear driving two plastic gears. Last gear has a 5/16" Dia. X 5/16" plastic nib. to provide reciprocating action. 1/2" radius of rotation on nib. Steel mounting bracket. 3" leads.

L: 5-1/4" (O/A) W: 3-1/4" (O/A) H: 1-3/4" WT: .62

STOCK #	DESC.	1EA
17132-MD	51RPM/12VDC Motor	\$19.95

DC MOTOR SPEED CONTROL KIT

12V DC motor or lamp control kit. Will control any 12V DC load up to 5A. uses pulse width mod. to give 5% to 98% control range. Kit contains all parts and a 12 V DC demo motor. Ideal for DC tools, science fair projects.
L: 3" **W:** 2-3/8" **H:** 1-3/4" **WT:** .63



STOCK #	DESC.	1EA	5+EA
16925-KT	DC Speed Control Kit	\$15.95	\$14.95

1.8DEG. STEP MOTOR

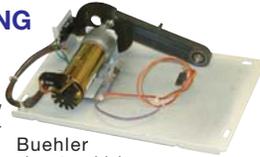
MFG: SHINANO KENSHI
P/N: STP-42D241
COIL: 12V/3.1 ohm/2.9mH
TYPE: 2 Phase Uni-Polar 6 lead
STEP ANGLE: 1.8 deg 200step/rev
 5mm dia. X 24mm steel shaft with metal 20 tooth X 11/16" dia. gear & 22 tooth X 9/16" dia. cog belt pully. 4 corner m3x0.5 mounting holes. 5" leads.
L: 1-5/8" (Body) **SQ:** 1-9/16" **WT:** .64



STOCK #	DESC.	1EA
17757-MS	1.8 Deg. 12V Step Motor	\$6.95

RECIPROCATING MOTOR ASSEMB.

Removed from new equipment, Motor assembly with a Buehler 1.61.046.520.01 Gearhead motor driving a reciprocating 4-7/8" removable plastic arm. 7/8" Stroke. 115 Strokes/Min @ 6V/ 230 @ 12V/460 @ 24V 12 Slot Photo sensor on rear motor shaft, 2 Slot Photo sensor on Cam plate. Removable steel base plate
L: 9-3/8" O/A **W:** 6" O/A **WT:** 2



STOCK #	DESC.	1EA	10EA
17264-MD	Reciprocating Motor	\$24.95	\$19.95

12VDC 17RPM MOTOR

MFG: ITT AUTOMOTIVE
P/N: 402.757
COIL: 12VDC
 Gearhead DC motor rated 17RPM @ 12V/34RPM @ 24V. 6mm dia. X 18mm flattened steel shaft. Plastic gearcase with 4 corner mounting holes. 4" leads.
L: 3-1/4" (Body) **W:** 1-3/8" **H:** 1-1/2" **WT:** .44



STOCK #	DESC.	1EA	10EA
16069-MD	12VDC 17RPM Motor	\$22.95	\$19.95

24 VDC GEARMOTOR

MFG: MOLON
P/N: CHM-2435-1
Voltage: 24VDC
RPM: 45
 Reversible DC gearhead motor with 5/16" dia X 5/8" long steel shaft. Mounted on shaft is 4-7/8" dia. plastic wheel with "O" ring in wheel rim for use as friction drive. 45RPM/50mA @24VDC No Load; 1A/ 7.5in-lb torque @ Stall. 7in. leads.
L: 2-1/2" (Body) **W:** 2-3/4" **H:** 3" **WT:** .9

360° VIEW @MPJA.COM



STOCK #	DESC.	1EA	10+EA
17971-MD	24VDC Gear Motor	\$9.95	\$8.95

CARRIAGE WHEEL

7-1/4" Dia. plastic wheel. White hard plastic hub with a black plastic tire. 3/4" tire width, 11/16" dia. X 1-1/8" hub bored for 5/16" shaft.



STOCK #	DESC.	1EA
16767-MI	7in. Plastic Wheel	\$1.99

21RPM 12VDC MOTOR/TACH

MFG: BUEHLER
P/N: 1.61.031.119.00
COIL: 12VDC/USED, 90Deg. Angled gearhead DC motor rated: 10/21/42RPM @ 6/12/24VDC, 300mA No Load/4.5A Stall @ 12V. Has 5VDC, TTL Compatible, 50Pulse/RPM Tach. mounted on rear. 8mm dia. X 50mm removable/reversible steel shaft held in place by a collet. Removable sheet metal mtg. bracket. 5" Tach leads, 8" motor leads.
L: 8-1/2" (OA) **W:** 4-1/4" **H:** 3" **WT:** 2.9



STOCK #	DESC.	1EA
17249-MD	12V 21 RPM Motor/Encoder	\$36.95

1.8DEG. STEP MOTOR

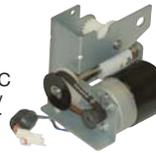
MFG: SANYO DENKI
P/N: 103H7121-0415
COIL: 2A/1.25 ohm/1.9mH
TYPE: 2 Phase Uni-Polar 6 lead
STEP ANGLE: 1.8 deg 120step/rev
 6mm dia. X2 4mm serrated steel front shaft with plastic 16 tooth X 1/2" dia. worm gear (removable). 6mm X 10mm smooth back shaft. removable 3/8" thick steel/rubber shock mounting plate with 4 corner mounting holes. 3" leads.
L: 2" (Body) **SQ:** 2-3/16" **WT:** 1.2



STOCK #	DESC.	1EA
16817-MS	1.8 Deg. Sanyo Motor	\$6.95

24V MOTOR & BELT DRIVE ASSEMB.

USED, Motor assembly with a 24VDC motor driving a COG belt & pulley that in turn drives Worm & gear assembly.
 Approx. RPM @ 24VDC NL:
 Motor: 3380, Worm gear: 1650, Spur gear: 116.
 Plastic gears with steel shafts, Bronze sleeve shaft & motor bearings. PC board on motor terminals with noise filters. Steel frame, 5in. wire leads with ferrite filter. Included is Spur gear without a shaft that matches output spur gear.
 Motor COG Belt Pully: .478"
 Jack Shaft COG Belt Pully: .975" Jack Shaft: .309"
 Output Spur Gear: .608"
 loose Spur Gear: 1.527" O/D .320" I/D
L: 3-1/2" O/A **W:** 3-1/2" O/A **H:** 3-1/2" O/A **WT:** 1.1



STOCK #	DESC.	1EA	10EA
17294-MD	Belt Drive 24V Motor	\$9.95	\$8.95

3V 1.8DEG. STEP MOTOR

MFG: SHINANO KENSHI
P/N: STP42D4009
COIL: 3V/1.6 ohm
TYPE: 2 Phase Uni-Polar 6 lead
STEP ANGLE: 1.8 deg 120step/rev
 5mm dia. X 24mm steel shaft with metal 20 tooth X 11/16" dia. gear & 22 tooth X 9/16" dia. cog belt pully. 4 corner m3x0.5 mounting holes. 5" leads.
L: 1-5/8" (Body) **SQ:** 1-9/16" **WT:** .64



STOCK #	DESC.	1EA
16231-MS	1.8Deg. Step Motor	\$7.95

DUAL WHEEL CASTER-SET

Set of 4 Faultless Plate casters, 2 with brake & 2 plane. Rated load of 100lb/caster. Twin 60mm dia. plastic wheels offer independent rotation for use on carpeting or tile. 2-1/2" square steel top plate with 2 holes.
H: 3" O/A **T:** 1



STOCK #	DESC.	1EA
17343-HD	Plate Caster 4 Pc. Set	\$8.95

24V 7.5 DEG. STEP MOTOR

MFG: NPM
P/N: PFC55-48B1
COIL: 24V/14ohm
TYPE: 2 Phase Uni-Polar 6 lead
 7.5 Degree step angle. 2.2mm dia. X 15mm steel shaft with a 8 tooth 1/4" dia. X .187" long brass spur gear. 2 mounting holes. 10" leads. Includes a matching pitch steel 32 tooth gear for a 7/32" shaft
Dia: 55mm(Body) 76.2 O/A **D:** 25mm (1") **WT:** .62



STOCK #	DESC.	1EA
18086-MS	24V Nippon Step Motor	\$4.95

12V 360 RPM MOTOR

MFG: BUEHLER
P/N: 1.61.046.112.00
COIL: 12-24VDC
 Gearhead DC motor rated 700RPM @ 24V/360RPM @ 12V with 6oz/in torque load. 5mm dia. X 10mm flattened steel shaft. 3 metric (M3) threaded mounting holes. 3" leads.
L: 3-1/2" (Body) **Dia:** 1-3/8" **WT:** .56



STOCK #	DESC.	1EA
16815-MD	12V-24VDC Gear Motor	\$12.95

3V/ 1.8Deg. STEP MOTOR

MFG: SHINANO KENSHI
P/N: STP-58D4002-02
COIL: 3VDC/.42ohms
TYPE: 2 Phase Bi-Polar 4 lead
STEP ANGLE: 1.8 deg
 7mm dia. X 18mm steel shaft with a pressfit 13/16" dia. 18 tooth, sintered steel cog belt gear. Ball bearings, 3" leads, 4 corner mounting holes threaded M4.5
L: 2-5/8" (Body) **SQ:** 2-3/16" **WT:** 2



STOCK #	DESC.	1EA	10+EA
16235-MS	3V SKC Step Motor	\$14.95	\$12.95

2.88V STEP MOTOR

MFG: SHINANO KENSHI
P/N: STH-56D309
COIL: 2.88VDC/2.4A
TYPE: 2 Phase Uni-Polar 6 lead
STEP ANGLE: 1.8 deg (Motor)
Assembly#: 127K80020
 6.5mm dia. X 22mm steel shaft with a rollpinned 3/4" dia. 22 tooth, plastic cog belt gear. Ball bearings, 5in. leads. Removable anti-vibration bracket with mtg. ears. 4 corner mounting holes (motor).
L: 2-1/4" (Body) **SQ:** 2-3/16" **WT:** 1.5



STOCK #	DESC.	1EA
17504-MS	Shinano 2.88V Step Motor	\$12.95

1.8Deg. STEP MOTOR

MFG: SANYO DENKI
P/N: 103G770-1856
COIL: 3.5V/1.5A/2.4ohm/2.9mH
TYPE: 2 Phase Bi-Polar 6 lead
STEP ANGLE: 1.8 deg
 6.5mm dia. X 18mm steel shaft with a pressfit 3/4" dia. 25 tooth, plastic cog belt gear. Ball bearings, 5in. leads. Removable anti-vibration bracket with mtg. ears. 4 corner mounting holes (motor).
L: 2-1/8" (Body) **SQ:** 2-3/16" **WT:** 1.3



STOCK #	DESC.	1EA	8+EA
16321-MS	1.8 Sanyo Step Motor	\$9.95	\$8.95

3V/ 1.8Deg. STEP MOTOR

MFG: ASTROSYN
P/N: 23KM-K213-P7V
COIL: 3VDC/1.8 ohms/2.6mH
TYPE: 2 Phase Uni-Polar, 6 lead
STEP ANGLE: 1.8 deg
 1/4" [Dia.] X 1" steel shaft with press fit steel COG belt pully. Four corner mounting holes. 4" leads.
L: 1-3/4" (Body) **SQ:** 2-3/16" **WT:** 1.1



STOCK #	DESC.	1EA
17276-MS	Astrosyn 1.8Deg. Stepmotor	\$10.95

1.3V VIBRATOR MOTOR



Made by Shichoh Eng. for Ericsson cell phones. Small DC motor with removable rubber case. Solderable Gold plated slide contacts. Rated:1.3VDC @ 20mA running. 4mm dia X 22mm long motor without rubber mount.

L: 22mm O/A W: 8mm O/A H: 6mm O/A WT: .004
STOCK # **DESC.** **1EA**
16054-MD **Shichoh Vibrator Motor** **\$1.95**

24V @ 360RPM MOTOR



MFG: BUEHLER
P/N: 1.61.046.526.03
COIL: 24VDC continuous
Gearhead DC motor rated:
360RPM @ 24V, .07A NL, 1.2A Stall
170RPM @ 12V, .06A NL, .7A Stall
5mm dia. X 16mm flattened steel shaft. 3 metric (M3) threaded mounting holes. 10" leads.

L: 2-7/8"(Body) **DIA:** 1-3/8" **WT:** .4
STOCK # **DESC.** **1EA**
17726-MD **360RPM/24V Gearhead Motor** **\$12.95**

24V 15DEG. STEPMOTOR



MFG: SLO-SYN
P/N: SM-024-0065-RX
COIL: 24V/9-11ohms/2.4A
TYPE: Uni-Polar 5 lead
STEP ANGLE: 15 deg
Used motor with a 1/4" dia. X 1-3/16" steel front shaft with a removable plastic COG Belt pulley. 1/4" dia. X 3/4" rear shaft with a Photo interrupter/Tach assembly.

W: 5-1/2" **D:** 5-3/4" **H:** 3-1/2" **WT:** 3.5
STOCK # **DESC.** **1EA**
17758-MS **Slo-Syn Step Motor** **\$9.95**

2.4VDC MINI MOTOR



Mabuchi FF-N20PN DC motor rated 1.5-3.0VDC, 2.4V nominal. 15800 RPM, 96mA (no load) @ 2.4V, 1mm dia. X 4mm shaft. Ideal hobby or toy motor.

L: 5/8" **Dia:** 1/2" **WT:** .009
STOCK # **DESC.** **1EA** **5+EA**
12798-MD **2.4VDC Mabuchi Motor** **\$1.49** **\$0.99**

12 VDC MOTOR



MABUCHU 12VDC motor with Bronze sleeve bearings. Used in tools & appliances etc. 3300+RPM/.04A, no load/.7A Stall @ 12V.
2.3mmDia. X 14mm steel shaft. Two M2.6X 0.45 tapped Front mounting holes. Solder terminals.

L: 2-3/4" (Body) **Dia:** 1-1/16" **WT:** .16
STOCK # **DESC.** **1EA**
17946-MD **12VDC Mabuchi Motor** **\$1.95**

1 RPM TIMER MOTOR



MFG: BRISTOL
COIL: 120VAC 60Hz.
DUTY: Cont.
1RPM Timer motot. Output CCW as viewed from shaft end. .31" dia. 18 tooth brass gear on 3/16" long shaft. 6in. leads.

Dia: 2" **L:** 1-1/2" O/A **WT:** .27
STOCK # **DESC.** **1+EA**
17843-MA **120VAC 1RPM Motor** **\$5.95**

SERVO MOTOR



MFG: JAPAN SERVO
P/N: DS48BT25-2
COIL: 6.4V/KRPM
USED, servo motor rated 6.4V per thousand RPM. 5.5mm dia. X 13mm steel shaft with press fit, 9/16" dia, 16 tooth brass gear. Three 8-32 threaded mounting holes in front. AC output tachometer on back. 15in. leads.

L: 3-3/4" (Body) **Dia:** 2" **WT:** 1.5
STOCK # **DESC.** **1EA** **10+EA**
17090-MD **Servo Motor/Tach** **\$9.95** **\$8.95**

12VDC/6.8RPM GEAR MOTOR



MFG: IGARASHI MOTORS (IGUSA)
P/N: Custom 2732-0300
COIL: 12V
Gear motor rated: 6.8 RPM @ 12VDC, 5mm (3/16") dia. X 10mm (3/8"), flattened steel shaft, bronze bearings. Three M3-.5 threaded mounting holes in front. Solder terminals

L: 2-11/16" (Body) **Dia:** 1-1/4" **WT:** .25
STOCK # **DESC.** **1EA** **10+EA**
15870-MD **12V 6.8RPM Motor** **\$12.95** **\$9.95**

12/24VDC MOTOR



MFG: BUHLER
P/N: 1.13.043.242.03
COIL: 12V/3.5ohms
USED DC motor Rated: 2300 RPM @ 12VDC NL, 4700 RPM @ 24VDC. 4mm dia. X 49mm steel front shaft. Front ball bearing, rear sleeve bearing. 3 M3 threaded mounting holes in front. 3" leads.

L: 3-1/8" (Body) **DIA:** 1-9/16" **WT:** .92
STOCK # **DESC.** **1EA**
17295-MD **12VDC Long Shaft Motor** **\$12.95**

24VDC GEARHEAD MOTOR



Used, ITT Automotive, Right Angle, Reversible, gearhead motor.
Rated: 24VDC, 440mA, 50 RPM, 3.1A @ Stall Intermittent duty
12VDC, 350mA, 23 RPM, 1.7A @ Stall
Hollow Plastic drive for 8mm Hex shaft (shaft passes through head), **Shaft not Supplied.** 3 Right side mounting bosses (Metric) as viewed from gearhead end. One .187" & one .250" quick connect terminals.

L: 5-3/4" **W:** 3" O/A **T:** 1-1/2" **WT:** 1.25
STOCK # **DESC.** **1+EA**
17272-MD **ITT 24V Gearhead Motor** **\$14.95**

23.5V 17RPM MOTOR



MFG: BUEHLER
P/N: 1.61.046.037
COIL: 23.5VDC
USED gearhead DC motor rated 17 RPM @ 23.5 V, 5mm dia. X 21mm flattened steel shaft. 2 threaded mounting holes. 6" leads.

L: 2-3/4" (Body) **Dia:** 1-3/8" **WT:** .4
STOCK # **DESC.** **1EA** **10+EA**
14204-MD **23.5VDC Motor** **\$18.95** **\$16.95**

12/24VDC MOTOR



MFG: BUHLER
P/N: 1.13.043.223.12
COIL: 12V
Rated: 1100 RPM @ 12VDC NL, 2140 RPM @ 24VDC. 4mm dia. X 20mm steel front shaft with pressfit 14mm dia. X 13mm 16 tooth brass gear. 3 M3 threaded mounting holes in front. 3" leads.

L: 3-1/8" (Body) **DIA:** 1-9/16" **WT:** 1
STOCK # **DESC.** **1EA**
16717-MD **12/24VDC Buhler Motor** **\$16.95**

13V 700 RPM MOTOR



MFG: BUEHLER
P/N: 1.61.046.178.01
COIL: 13VDC
Gearhead DC motor rated 700RPM @ 13V/500RPM @ 13V with 6oz/in torque load. 5mm dia. X 11mm flattened steel shaft. 3 metric (M3) threaded mounting holes. 36" leads.

L: 2-1/2" (Body) **Dia:** 1-3/8" **WT:** .4
STOCK # **DESC.** **1EA** **10+EA**
16392-MD **13V 700RPM Motor** **\$18.95** **\$16.65**

24V LINEAR STEP MOTOR



MFG: EASTERN AIR DEVICES
P/N: LB11ABM-4R
COIL: 24VDC/.96A/725ohms
TYPE: 4 Phase Uni-Polar 5 lead
STEP ANGLE: 15 deg(motor)
Removed from equipment linear step motor. 1/8" dia. X 3/8" rear shaft. 4-56UNS-3A threaded X 1-5/8" long steel front shaft, 4 mounting holes threaded 4-40. 12" leads.

L: 1-7/8"Body **Dia:** 1-1/16" **WT:** .3
STOCK # **DESC.** **1EA**
16385-MS **EAD Linear Stepmotor** **\$7.95**

LINEAR STEP MOTOR



MFG: SHINKOH
P/N: 23PB-H031
COIL: 12VDC/.25A
TYPE: 2 Phase Uni-Polar 6 lead
STEP ANGLE: 7.5 deg(motor)
approx. .01in/step, 1/2" rev.
USED linear step motor. .25" dia. X 3-3/16" shaft. 1-7/8" long spiral "groove" cut into shaft for a traveler (not supplied). 2 mtg. tabs for clamping. 3" leads.

L: 1-1/8"Body **Dia:** 2-1/2" **WT:** .65
STOCK # **DESC.** **1EA**
16513-MS **Linear Step Motor** **\$2.95**

12V @ 58RPM GEARHEAD MOTOR



MFG: SAYAMA
P/N: 12SM-AT3
COIL: 12VDC
Micro Gearhead DC motor rated:
30RPM @ 6V, 9mA NL
62RPM @ 12V, 20mA NL
58RPM @ 12V, 45mA @ .25kg/cm rated torque
2mm dia. X 5.4mm flattened steel shaft with pin hole. metric (M5.5 P=.5) threaded mounting holes. Solder terminals.

L: 1-3/8" (Body) **DIA:** 15/32" **WT:** .3
STOCK # **DESC.** **1EA**
17269-MD **12V Micro Gearhead Motor** **\$12.95**

13.6 VDC MOTOR



Johnson 13.6VDC motor with Bronze sleeve bearings. Used in tools & appliances etc. 6290+RPM, .32A, no load, @ 13.6V. MaxTorque: 6.15oz/in @ 13.6V/3.6A
1/8" [Dia.] X 5/8" serated steel shaft. Solder terminals.

L: 2-3/8" (Body) **Dia:** 1-1/2" **WT:** .37
STOCK # **DESC.** **1EA** **5+EA**
17942-MD **13.6VDC Motor** **\$3.95** **\$**

27VDC INSTRUMENT MOTOR



MFG: NORTHFIELD ELECTRIC
P/N: 4250
NSN: 6105-00-500-4676
COIL: 27VDC
Rated; 176K RPM @ 27VDC, .3A
Old New Stock. Mil. type motor with aluminum case and removable bracket. 5/16" dia. 14tooth steel gear pressed on 5/16" long shaft. 10" leads

L: 2-1/2" **Dia:** 1-1/4" **WT:** .6
STOCK # **DESC.** **1EA**
17068-MD **27VDC Military Motor** **\$8.95**

12V 110RPM MOTOR



MFG: COPAL
P/N: LC37G-183
COIL: 12VDC
Removed from New Equipment, Gearhead DC motor rated 110RPM @ 12V/220RPM @ 24V. 6mm dia. X 27mm flattened steel shaft with metal gears. 3 corner mounting holes. 5" leads. 1-7/8" X 1-5/8" mtg. flange.

L: 2" (Body) **Dia:** 1-15/16" (Body) **WT:** .4
STOCK # **DESC.** **1EA** **10+EA**
15530-MD **12VDC 120 RPM Motor** **\$16.95** **\$14.95**

LEAD SCREW MOTOR ASSEMB.



Removed from new equipment, Motor assembly with a Buehler 1.61.046.531.00 Gearhead motor driving a 110mm (4-5/16") long lead screw. 85mm (3-1/4") Max travel, 4.3mm (1-11/16")/Rev. Plastic travler with removable steel bracket.
Approx. 105RPM/6VDC, 50 Slot Photo Tach. (5V powered) on rear motor shaft, steel base plate.

L: 9-3/8" O/A W: 6" O/A WT: 2.3

STOCK #	DESC.	1EA
17265-MD	Lead Screw Motor Assembly	\$29.95

13.6 VDC 6100RPM MOTOR



Johnson 13.6VDC motor with Bronze sleeve bearings. Used in tools & appliances etc. 6100+RPM, .44A, no load, @ 13.6V. Max Torque: 6.1oz/in @ 13.6V/2.8A 1/8" [Dia.] X 3/4" serrated steel shaft. Solder terminals. 2 mounting holes threaded M3 on front.

L: 2-5/8" (Body) Dia: 1-1/2" WT: .47

STOCK #	DESC.	1EA
17943-MD	13.6VDC Johnson Motor	\$3.95

24 VDC MOTOR



Johnson 24 VDC motor with Bronze sleeve bearings. Similar to HC685LG. Used in tools & appliances etc. 4600+RPM, .708A, no load, 3A Stall @ 24V. 1/8" [Dia.] X 7/16" steel front shaft with 1/2" Dia. 14Tooth Brass gear, 1/8" Dia. X 5/16" rear shaft. Rear mounted removable circuit board with 4 Pin mini header and a PTC resettable fuse (1.3A hold). Two m3.3 tapped mounting holes in front.

L: 2-1/2" (Body) Dia: 1-1/2" WT: .6

STOCK #	DESC.	1EA
17948-MD	24VDC Johnson Motor	\$3.95

1.8° STEP MOTOR



MFG: SHINANO KENSHI
P/N: STH-39D191
COIL: 10.8VDC/57ohm
TYPE: 2 Phase Uni-Polar 5 lead
STEP ANGLE: 1.8 deg (Motor)
Assembly#: 127K94441

5mm dia. X 12mm serrated steel shaft with sleeve bearings, 4in leads. Removable 1/2" dia. 24 tooth, plastic gear driving a 39 tooth gear. Removable bracket with mtg. ears. 4 corner m3X0.5 threaded mounting holes (Motor). Includes a Omron Opto-interrupter Motor: L: 1-1/4" X 1-1/2" Sq.

L: 4-1/16" W: 2-3/8" H: 3-1/8" WT: .52

STOCK #	DESC.	1EA
17989-MS	Shinano 10.8V Step Motor Asb.	\$3.95

3V/ 1.8Deg. STEP MOTOR



MFG: SHINANO KENSHI
P/N: STP-58D4002-03
COIL: 3VDC/.42ohms
TYPE: 2 Phase Bi-Polar 4 lead
STEP ANGLE: 1.8 deg
7mm dia. X 18mm steel shaft with a pressfit 1-1/2" dia. 36 tooth, sintered steel cog belt gear. Ball bearings, 3" leads, 4 corner mounting holes threaded M4.5, Removable steel mtg. bracket

L: 2-5/8" (Body) SQ: 2-3/16" WT: 2.2

STOCK #	DESC.	1EA	10+EA
17153-MS	3V SKC Step Motor	\$14.95	\$12.95

THOUSANDS
more Items on www.mpja.com

STEP MOTOR DRIVER



P/N: CW230
INPUT: 24-36VDC
OUTPUT: Selectable up to 3A max.
STEP ANGLE: 1.8 deg:200steps/Rev.
Microstep: 1/2-1/4-1/8-1/16-1/32-1/64
Full bridge driver for hybrid stepmotors.
Switch Selectable output current.
Over temp & Output miswire Protected.
Opto Isolated Step pulse input (Clock input +5V Level).
Opto Isolated Direction input (+5V Level)
Opto Isolated Reset input (+5V Level)
Terminal strips in/out.

L: 4-5/8" W: 2-3/4" H: 1-3/8" WT: .7

STOCK #	DESC.	1EA
17451-MS	CW230 Stepmotor Driver	\$48.50

STEP MOTOR DRIVER



P/N: CW250
INPUT: 20-60VDC
OUTPUT: Selectable up to 5A max.
STEP ANGLE: 1.8 deg:200steps/Rev.
Microstep: 1/8: 1600 steps/Rev.
Full bridge driver for hybrid stepmotors. Switch Selectable output current. Over temp & Output miswire Protected. Opto isolated Step pulse input (Clock input +5V Level). Opto Isolated Direction input (+5V Level) Terminal strips in/out.

L: 5-3/4" W: 3-3/4" H: 1-3/4" WT: 1.5

STOCK #	DESC.	1EA
17452-MS	CW250 Stepmotor Driver	\$49.95

3V/1.8°STEP MOTOR



P/N: 85BYGH450A-04
COIL: 3VDC/10hms/4.05mH
TYPE: 4 Phase Uni-Polar 6 lead
STEP ANGLE: 1.8 deg
New, heavy duty step motor, 23Kg.cm holding torque. 13mm (.55") X 35mm (1-3/8") steel shaft. 4 corner mtg. holes.

L: 3" Body Sq: 3-3/8" WT: 4.7

STOCK #	DESC.	1EA
17458-MS	3V/1.8° Stepmotor	\$54.95

3.6V/1.8°STEP MOTOR



P/N: 57BYGH405A
COIL: 3.6VDC/1.20hms/2.4mH
TYPE: 4 Phase Uni-Polar 6 lead
STEP ANGLE: 1.8 deg
New step motor, 21Kg.cm holding torque. 6.35mm (.25") X 19mm (.75") steel shaft. 4 corner mtg. holes. 24" leads.

L: 2-3/8" Body Sq: 2-3/16" WT: 2.6

STOCK #	DESC.	1EA
17456-MS	CW 3.6V Stepmotor	\$34.95

1.8Deg. STEP MOTOR



MFG: MINEBEA
P/N: 23KM-K102-P1V
COIL: 3A/1ohm/2.2mH
TYPE: 2 Phase Bi-Polar 4 lead
STEP ANGLE: 1.8 deg
8mm dia. X 18mm steel shaft with a pressfit 13/16" dia. 18 tooth, aluminum cog belt gear. Ball bearings, 6pin connector (supplied), 4 corner mounting holes threaded M4.5

L: 2-5/8" (Body) SQ: 2-3/16" WT: 1.9

STOCK #	DESC.	1EA	16+EA
16320-MS	1.8 Minebea Step Motor	\$12.95	\$10.95

6.2V/1.8°STEP MOTOR



P/N: 57BYGH213
COIL: 6.2VDC/6.2Ohms/10mH
TYPE: 4 Phase Uni-Polar 6 lead
STEP ANGLE: 1.8 deg
New step motor, 9000g.cm holding torque. 6.35mm (.25") X 19mm (.75") steel shaft. 4 corner mtg. holes. 24" leads.

L: 2-3/8" Body Sq: 2-3/16" WT: 1.6

STOCK #	DESC.	1EA
17455-MS	6.2V/1.8° Stepmotor	\$14.95

24V/1.8°STEP MOTOR



P/N: 57BYGH006
COIL: 24VDC/71 Ohms/90mH
TYPE: 4 Phase Uni-Polar 6 lead
STEP ANGLE: 1.8 deg
New step motor, 4400g.cm holding torque. 6.35mm (.25") X 19mm (.75") steel shaft. 4 corner mtg. holes. 24" leads.

L: 1-5/8" Body Sq: 2-3/16" WT: 1

STOCK #	DESC.	1EA
17454-MS	24V/1.8° Stepmotor	\$17.95

7.8V/1.8°STEP MOTOR



P/N: 85BYGH450C-01
COIL: 7.8VDC/3.9Ohms/24mH
TYPE: 4 Phase Uni-Polar 6 lead
STEP ANGLE: 1.8 deg
New, heavy duty step motor, 63Kg.cm holding torque. 13mm (.55") X 35mm (1-3/8") steel shaft. 4 corner mtg. holes.

L: 6" Body Sq: 3-3/8" WT: 11

STOCK #	DESC.	1EA
17457-MS	7.8V/1.8° Stepmotor	\$79.95

52V/1.8°STEP MOTOR



P/N: 42BYGH4806
COIL: 52VDC/52 Ohms/5.2mH
TYPE: 4 Phase Uni-Polar 6 lead
STEP ANGLE: 1.8 deg
New step motor, 3200g.cm holding torque. 5mm X 22mm steel shaft. 4 corner m3 threaded mtg. holes. 24" leads.

L: 2" Body Sq: 1-5/8" WT: .84

STOCK #	DESC.	1EA
17453-MS	CW Size 42 Stepmotor	\$15.95

COMPUTER MONITOR TESTER

Model MT-830, Light weight multifunction, hand held test set for computer monitors. 9V battery powered. Simple set up, only three switches used to select monitor. DB-9 & DB-15HD connectors.



SPECIFICATIONS

Monitor Types: MDA, CGA, EGA, VGA, SVGA, 8514/A,
Test Rates:

Mon.	-----	Horiz-----	-----	Vert-----		
Video Type	KHz	Polarity	Hz	Polarity	Lines	Type
MDA	18.4	+	50	-	350	TTL
CGA	15.7	+	60	+	200	TTL
EGA	21.8	+	60	-	350	TTL
VGA	31.5	-	60	-	480	Analog
SVGA	35.2	+	56	+	600	Analog
SVGA	48.5	+	60	+	768	Analog
SVGA	64	+	60	+	1024	Analog
8514	35.5	+	87	+	384	Analog

Video Patterns:
Color Bars, Crosshatch, Dots, Color Raster, Black/White window.

L: 5.7" W: 3.8" T: 1.5" WT: .6

STOCK #	DESC.	1EA	5+EA
1792-TE	Monitor Tester	\$119.95	\$99.95

25MHZ DIGITAL STORAGE SCOPE



MFG: Instek
Model: GDS-1022
Power: 100-240VAC 50/60Hz
Accessories: 2 Probes, AC Cord Manual
 25MHz. dual channel digital oscilloscope with 5.6in. 320 X 234 Backlit Color LCD display(8X10 Graticule). Screen displays Waveforms, ranges, Time base, Measured Values. "Auto" mode allows display without changing rates & ranges. Features a SD card slot /USB interface. Folding handle. CE Listed

Channels: 2
Input: 3 X BNC Female (Ch-A/B &Ext Trigger)
VERTICAL:
Impedance: 1Mohm/<16pF
Bandwidth: 25MHz
Sample Rate: 100MSam/Sec Real Time /25GSs effective
Vertical Input Coupling: AC/DC/(Grounded)
Vert. Input Range: 2mV to 5V/Div. (in 1/2/5 seq.)
Max. Input: 300V DC/AC
Resolution: 8 Bit
Record Length: 4K Points
HORIZONTAL:
Horizontal Rate: 1nS/Div. to 10S/Div. (in 1/2/5 seq.)
Trigger Modes : Normal, Auto, 1 Shot,TV
Trig. Source: Ch. 1/Ch.2/Line/External
Trig. Level: + or -, video line, video field
Trig. Sens.: DC/AC: .5div/5mV
MEASUREMENTS/MATH:
Voltage: pp/amp/ave/rms/hi/lo
Time: freq./Period/Rise/Fall/Duty/+Width/-Width
Memory: up to 15 waveforms/settings can be stored
Recall: 2 Reference + 2 Live Waveforms on Screen.
Interface: USB 1.1/2.0 USB interface (Print/Flash not supported)
 SD Card: Image (BMP) Waveform (CSV) Setup (SET)

H: 6-9/16" **W:** 12-1/4" **D:** 5-1/2" **WT:** 5.5
Scope & Accessories Shp: **WT:** 8.2

STOCK #	DESC.	1EA
17520-TE	Instek Digital Oscilloscope	\$409.00

10MHZ ANALOG SCOPE



MFG: Instek
Model: GOS-310
Power: 115VAC 50/60Hz
 10MHz. Single channel Analog oscilloscope. 75mm Round CRT display with 8 X 10 Graticule. Top handle. CE Listed.

Channel: 1
Input: 2 X BNC Female (Ch & Ext Trigger)
VERTICAL:
Impedance: 1Mohm/<35pF
Bandwidth: 10MHz
Vertical Input Coupling: AC/DC/(Grounded)
Vert. Input Range: 5mV to 5V/Div.
Max. Input: 600VP/P or 300VPeak (DC+AC peak)
HORIZONTAL:
Horizontal Rate: 10.1uS/Div. to 10mS/Div.
X/Y MODE:
Impedance: 1Mohm/<35pF
Bandwidth: DC-500KHz. (-3db)
Max. Input: 600VP/P or 300VPeak (DC+AC peak)
TRIGGER:
Trigger Modes : Normal, Auto,TV,EXT
Trig. Source: Int/External
Trig. Slope: + or -
Trig. Coupling: AC
Max. Input: 600VP/P or 300VPeak (DC+AC peak)
Accessories: 1pc. 1M Alligator clips to BNC Test Lead, AC Cord, Manual

H: 8.3" **W:** 5.2" **D:** 11.8" **WT:** 10
Scope & Accessories Shp: **WT:** 11

STOCK #	DESC.	1EA
18141-TE	Instek 10M Analog Oscilloscope	\$207.00

20MHZ ANALOG SCOPE



MFG: Instek
Model: GOS-620
Power: 115/230VAC 50/60Hz
Accessories: 2 Probes, AC Cord Manual
 20MHz. dual channel Analog oscilloscope. 6in. CRT display with 8 X 10 Graticule. Folding handle. CE Listed

Channels: 2
Input: 3 X BNC Female (Ch-A/B &Ext Trigger)
VERTICAL:
Impedance: 1Mohm/<16pF
Bandwidth: 20MHz/7MHz @ X5 Mag
"Z" AXIS:
Impedance: ~47K ohm
Bandwidth: DC~2MHz
Sens: >5Vp-p
HORIZONTAL:
Horizontal Rate: .2uS/Div. to .5S/Div.
 100nS to 50mS (10X)
Vertical Input Coupling: AC/DC/(Grounded)
Vert. Input Range: 5mV to 5V/Div.
Vert. Modes: CH1/CH2/DUAL (Alt/Chop)/CH1+CH2/CH2 Invert

TRIGGER:
Trigger Modes : Normal, Auto,TV-H, TV-V
Trig. Source: Ch1/Ch2/Alt./Line/External
Trig. Slope: + or -
Trig. Coupling: AC

H: 6" **W:** 12-1/4" **D:** 18" **WT:** 17.7
Scope & Accessories Shp: **WT:** 21.2

STOCK #	DESC.	1EA
17522-TE	Instek Analog Oscilloscope	\$369.00

PROGRAMMABLE 0-40VDC @ 5A BENCH SUPPLY



MFG: Instek
Model: PSP-405
Power: 120VAC 50/60Hz
OUTPUT: 0-40VDC @ 0-5A
Resolution V: 10mV
 I: 2mA
Ripple: <= 20mV RMS
 <=10mA RMS
Regulation: <= 0.05% Line
 <= 10mV/5mA Load

Specifications/Features: Programmable supply with back-lit LCD display, keypad, rotary digital control. Operates as Constant Voltage, Current or Power. In Constant Power Mode, Output voltage is held while Current is adj. to hold Power level. Output ON/Off control. RS232 for PC connection (Download Software from our site). Includes: Manual, Power cord, 3ft. Spade lug to Alligator clip leads

H: 3.9" **W:** 8.9" **D:** 12" **WT:** 8.8

STOCK #	DESC.	1EA
18144-PS	40V Programmable Supply	\$279.00



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Full 360 Deg. Video of Items displaying these logos On-Line, in our Catalogs & Flyers.

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2MHZ FUNCTION GENERATOR



MFG: Instek
Model: GFG-8020H
Power: 100/120/220/230VAC 50/60Hz
 Bench top Function generator covers .2 Hz to 2MHz in 7 switch select ranges. separate Course & Fine controls. Built in 4digit display of output frequency. Folding handle. CE Listed. Includes:AC Cord, Alligator Clip cable, Manual

OUTPUTS:
Connections: BNC-F TTL(CMOS) & BNC-F 50 ohm
Waveforms: Sine,Triangle,Square,TTL Pulse, CMOS
Switching Time: TTI: <30nS CMOS/Square : <120nS
Level: >20Vp-p Open Circuit >10Vp-p 50Ohm load
 +3V Fixed TTL
 4V(+1V)-14.5V (+-.5V) Adj. CMOS
Attenuator: Selectable 20db
DC Offset: <-10V to >+10V Open/ -5Vto +5V 50 ohms
Duty Cycle: (Square & Pulse only) 1/1 (50%)-10/1 with invert function

VCF INPUT:
Connection: BNC-F
Impedance: ~10K ohms
Control: 0-10VDC for 10:1 Frequency change.
COUNTER: (Internal use only)
Display: 4 Digit LED
Resolution: 0.1Hz/1Hz/10Hz/100Hz/1KHz
H: 3-3/4" **W:** 9-1/8" **D:** 11" **WT:** 4.7
Generator & Accessories Shp: **WT:** 5.9

STOCK #	DESC.	1EA
17523-TE	Instek Function Generator	\$198.00

FREQUENCY GENERATOR



MFG: Instek
Model: GAG-810
Power: 120VAC 50/60Hz
 Bench top Frequency generator covers 10 Hz to 1MHz in 5 switch select ranges. Top handle. CE Listed. Includes: AC Cord, 1M Alligator Clip cable, Manual

OUTPUT:
Connections: Banana Jacks
Waveforms: Selectable Sine or Square Wave
Rise/Fall Time: Square : <200nS
Level: 0-5rms 600ohms.
Attenuator: Selectable 0,-10,-20,-30,-40,-50db
SYNC INPUT:
Connection: Rear Panel Banana Jacks
Impedance: 150K ohms
Sync. Range: +-1%/Vrms
Input: Sine Wave 0-15V(DC+ACpeak)
Distortion: 500-20KHz: <0.02%
 100-100kHz: <0.05%
 20-500KHz: <0.5%
 10-1MHz: <1.5%

H: 8.27" **W:** 5.2" **D:** 11.5" **WT:** 6.2
Generator & Accessories Shp: **WT:** 7.3

STOCK #	DESC.	1EA
18142-TE	Instek Frequency Generator	\$199.95

RF FREQUENCY GENERATOR



MFG: Instek
Model: GRC-450B
Power: 120VAC 50/60Hz
 Bench top Frequency generator covers 10 Hz to 1MHz in 5 switch select ranges. Top handle. CE Listed. Includes: AC Cord, 1M BNC cable, Manual

OUTPUTS:
Connections: BNC jacks
Waveform: Sine Wave
Range: 100k-150MHz 6 Steps
Level: 100mV <35MHz. Switch HI/LO + Fine Adj. Control
MONITOR OUTPUT: 50mVrms typ.
MODULATION:
Connection: BNC Jack
Frequency: Internal: 1KHz Ext: 50-20KHz.
Level: Int: 30% Ext: 0<1Vrms
AUX. OUTPUT: 1KHz @ 1Vrms Min. (Fixed)

H: 6.3" **W:** 9.8" **D:** 5.5" **WT:** 5.5
Generator & Accessories Shp: **WT:** 7.3

STOCK #	DESC.	1EA
18143-TE	Instek RF Frequency Generator	\$207.00



HANDHELD SCOPE METER



20MHz. dual channel digital oscilloscope/meter with 320 X 240 Backlit Monochrome LCD display. Screen displays Waveforms, ranges, Time base, Measured Values. "Auto" mode allows display without changing rates & ranges. Features a RS-232 serial interface & software interface for your computer allowing you to display single shot, save, load, print the measurements. Includes Ranges for Ohms, Continuity & Diode testing.

Channels: 2
Input: 2 X BNC Female/Banana Jacks for Ohms etc.
Impedance: 1Mohm/ $<20\text{pF}$
Bandwidth: 20MHz @ 10X/ 6MHz @ 1X (Probe setting)
Sample Rate: 100MSam./Sec Real Time
Horizontal Rate: 10nS/Div. to 5S/Div. (in 1/2/5 seq.)
Vertical Input Coupling: AC/DC
Vert. Input Range: 5mV to 20V/Div. (1/2/5 seq.)
Max. Input: 300V DC/AC
Resolution: 8 Bit
Scale: None/Grid Lines/Grid Dots
 10 Horz, 8 Vert. Divisions 50 H/40V
Trigger Modes : Normal, Auto, 1 Shot
Trig. Source: Ch. 1 or Ch.2
Trig. Level: + or -
Trig. Sens.: .5Grid line
Memory: up to 6 waveforms can be stored
Presets: Up to 10 Setups can be saved & Recalled
Ohms: 200-20M in 6 auto ranges (Bargraph & numerical Value)

Continuity: Beep $<50\text{ohms}$ (Bargraph & numerical Value)
Diode: 1.5V Test (Bargraph & numerical Value)
Power: Internal Rechargeable 3.6V Lithium or AC Adapter
Accessories: 2 Probes, Test leads, AC adapter/Charger, RS-232 cable(DB-9), PC Software CD, Soft Case
H: 8-7/8" **W:** 4-3/8" **T:** 2" **WT:** 1.8
Meter, Case & Accessories Shp: **WT:** 6

STOCK #	DESC.	1EA
17274-TE	Handheld 20MHz ScopeMeter	\$525.00

WIRELESS COLOR INSPECTION CAMERA



Removable Wireless LCD is Larger than most units available today

Aardvark 2.4GHz wireless borescope with 3ft. flexible, weather resistant (IP-67) Color camera probe and a 3-1/2in. Recordable LCD color monitor. The Aardvark is ideal for inspecting confined spaces such as AC Vents, sink drains, motor housings, air handlers, sub floor areas, walls and much more. Min. hole/pipe dia. 17mm (.67"). Wireless monitor can be removed from probe unit (up to 30ft. depending on conditions). Still pictures or video can be recorded on an included 2Gb Micro SD card (16Gb Max) and has outputs for connecting a larger monitor, recorder & has a USB port connecting to your computer. Includes: Padded Plastic case, AC charger/adaptor, 2GB SD Card, video & USB cable, 3 pcs. Mirror/Hook/Magnet clip-on accessories, 9mm Camera for tighter/smaller areas.

STOCK #	DESC.	1EA
18120-TE	Wireless Borescope	\$249.00

AARDVARK ACCESSORIES

- 18121-TE 3ft. Flex Extension: Up to total of 5 can be used
- 18122-TE 2Gb Micro SD card
- 18123-TE Magnetic Base for LCD Monitor
- 18124-TE Replacement Clip-on Mirror, Magnetic & Hook Accessories
- 18125-TE Replacement/Spare Supply/Charger
- 18126-TE 9mm Camera Head for confined areas

STOCK #	DESC.	1EA
18121-TE	3ft. Extension for Borescope	\$24.95
18122-TE	2GB MicroSD Card	\$8.50
18123-TE	Mounting Bracket for Monitor	\$9.95
18124-TE	Replacement Clip-on Acces.	\$7.95
18125-TE	Replacement Charger	\$9.95
18126-TE	9mm X 1m Camera Flex Head	\$69.00

I/R SMALL SPOT THERMOMETER



Highly advanced, Close focus, non-contact, I/R temperature meter. Featuring bright Class II Dual lasers "Spot-On" aiming for accurate measurements. Measure the temperature of components, skin and other close surfaces as small as .1in. with pinpoint accuracy

MFG: ZYTEMP
P/N: TN01U
Range: Temp: -55 "C" to +220 "C" -67 to 428 "F"

Features:

- * Large Multi-function Backlit LCD display
- * Selectable degree F or C readout
- * Digit Temp. readout
- * Min/Max measurements
- * Stopwatch
- * Realtime Clock

Specifications:
 Focus: 18mm (.7")
 Measurement Spot Size: 2.5mm (.1") @ .7in.
 Emissivity: Adj. 0.05-1.00 factory Preset at .95
 Accuracy: $\pm 2\%/ \pm 2\text{Deg}$. Whichever is greater
 Display Resolution: 0.1 "C" (.1 < 199.9 / > 200)
 Response Time: 1Sec.
 Power: 2 "AAA" Cells (Approx. 18hr. continuous use)

L:	W:	T:	WT:	Shp. WT:
6-3/4"	1-1/2"	1"	.3	.51

STOCK #	DESC.	1EA
17782-TL	I/R Temperature Meter	\$129.95

INFRARED THERMOMETER



Pistol grip type, Non-contact infrared digital thermometer with LASER pointer and Auto Hold, Auto Turn Off, selectable "F" or "C" display, max-min & Ave. Includes soft sided woven case. CE listed.

Display: 3-1/2 digit Backlit LCD
Detection Range: 8-14um
Range: -4 "F" to +999 "F" (-20 "C" to 537 "C")
 Selectable "F" or "C"
Accuracy: -20 "C" ~ 50 "C": ± 2.5 deg. "C"
 51 "C" ~ 537 "C": $\pm 1\%$ of reading + 1 deg.
Resolution: .1Deg.
Sample Rate: approx. 1/Sec while holding Trigger single shot per trigger pull
Distance Factor: 12/1 (at 12" spot size is 1")
Emissivity Factor: fixed @ .95
Power: 9 VDC battery
L: 6-3/8" **W:** 2-1/4" **H:** 7-1/2" O/A **WT:** .7

STOCK #	DESC.	1EA
16710-TE	Non-Contact I/R Thermometer	\$59.95

PHOTO TACHOMETER



Hand held photo reflective tachometer. 5 digit LCD display measures RPM from 5-99,999 with auto range select. Resolution: .1RPM < 1000 , 1RPM/above 1000. Features Hi/Lo/ Last reading memory. Powered by 4 "AA" cells or included 120VAC adapter. Requires reflective area on a non reflective surface.

STOCK #	DESC.	1EA
15161-TE	PHOTO Tachometer	\$39.00

LASER TACHOMETER



Hand held photoreflexive tachometer uses LASER beam. 5 digit LCD display measures RPM from 2.5-99,999. Resolution: .1RPM/2.5-999, 1RPM/above 1000. Features Hi/Lo/ Last reading memory. Powered by 4 "AA" cells or included 120VAC adapter. Requires reflective area on a non reflective surface.

STOCK #	DESC.	1EA
15160-TE	LASER Tachometer	\$39.95

AUTORANGE DMM RS232 INTERFACE



Quality 3-3/4 digit (3999 count) DMM with 1" char. ht. Connects to your PC port & software provides data capture, tracking & printing. Autoranging or manual, Data Hold, AC & DC voltage/Current, frequency to 30KHz, Capacitance, Resistance, 40M Ohm, Fused input. Includes Test leads, Black Boot, RS232 cable & Software. Requires: Pent. 90MHz or better, Win95 above, 16M RAM, 20M Hard drive space, Floppy Drive. **Batteries not included**

DC VOLTS: 4V to 1KV, Accuracy .5% +3 LS digit (0.8%+3 on 1000), Impedance 10 Mohm
DC CURRENT: 400uA to 20A, Accuracy 1.2% + 5 LS digit, Overload .8A Fuse on uA, mA/20A
 20A: 30sec on/15min off. Fused @ 20A
AC VOLTS: .4V to 750V, Accuracy 0.8% +8 LS digit, Impedance 10M ohm, Overload 750VRMS
AC CURRENT: 400uA to 20A, Accuracy 1.2% + 10LS digit (3%+5 on 20A), Overload fuse.
 20A: 30sec on/15min off. Fused @ 20A
CAPACITANCE: 4nF to 40uF, Accuracy 5% + 25 LS digit (2% 40uF), Test Voltage .45V, Overload 1000Vp
RESISTANCE: 400 to 40M Ohm, Accuracy 1.5% + 5LS digit, (5% 40M Ohm)
FREQUENCY: 10Hz-300KHz, Accuracy .5% + 3LS digit,
OTHER: Continuity buzzer $< 20\text{Ohm}$, Diode/Transistor: 2.8V Test Transistor HFE @ 10uA

T:	W:	D:	WT:
7-3/4"	3-1/4"	1-1/2"	1.3

STOCK #	DESC.	1EA
16374-TE	Lge. Char. DMM/RS-232	\$49.95

BACKLIT DMM



3-1/2 digit LCD digital multimeter. Features HOLD Button. Continuity Buzzer, backlighted display. With battery, test leads & instructions. Fuse & Diode protected (not 10A range). Includes protective Boot. CE listed

DC VOLTS: 200mV, 2, 20, 200, 600, Accuracy .8% + 2 LS digit
DC CURRENT: 200uA, 2, 20, 200mA, 10A, Accuracy 1.5% + 2 LS digit, 250V on 200mV 600V Max
AC VOLTS: 200, 600V, Accuracy 1.2% + 10 LS digit, 40-400Hz. Ave. Responding, 600V RMS/DC Max
RESISTANCE: 200, 2K, 20K, 200K, 2M Ohm, Accuracy 1% + 2 LS Digit, 250V RMS Max
DIODE & TRANSISTOR TEST
 Diode Displays forward drop
 HFE 0-1000 lb = 10ua/Vce = 3V

H:	W:	D:	WT:
5-3/4"	3"	1-1/4"	.8

STOCK #	DESC.	1EA
14213-TE	Mini Deluxe Backlit DMM	\$14.95

CLAMP-ON DIGITAL AMMETER/MULTIMETER



Clamp-on digital Ammeter/multi-meter with 3-1/2 digit LCD display. Features Data Hold, 2" Jaw opening, 2" clamp diameter closed for large conductors or buss bars. Impact plastic case. With test leads, wrist lanyard, storage pouch & instructions. Note: Meter designed for reading AC/ DC lines not low level uses. Not auto-ranging

AC CURRENT: 200, 1000, Accuracy $\pm 2\% \pm 5\text{LS}$, Frequency 50-60Hz, Overload 1200A 1min.
AC VOLTS: 750V, Accuracy $\pm 1.0\% \pm 4\text{LS}$, Overload 750V AC/DC
DC VOLTS: 1000 Volts, Accuracy $\pm .5\% \pm 1\text{LS}$, Impedance 9M ohms
RESISTANCE
 Ranges: 200, 20Kohms
 Accuracy: $\pm 1\% \pm 3\text{LS}$ @ 200
 $\pm 1\% \pm 1\text{LS}$ @ 20K
CONTINUITY TEST: (200ohm Range)
 BUZZER $< 30 \pm 20$ ohms

H:	W:	T:	WT:
9-1/4"	3-1/2"	1-3/4"	.9

STOCK #	DESC.	1EA
11469-TE	Digital Amp Meter	\$9.95

**TRUE RMS
AUTORANGE
DMM**



Quality 3-7/8 digit (6000 count) DMM with .8" char. ht. LCD display. Autoranging with Max/Min, Data Hold, AC & DC voltage/Current, frequency to 600KHz, Capacitance, Resistance to 60M Ohm, Fused input. Includes Test leads. **Batteries not Included**
DC VOLTS 6V to 1KV, Accuracy .3% +3 LS digit/.8% +4 on 1KV. Impedance 10 Mohm
DC CURRENT 600uA to 20A, Accuracy .8% + 5 LS digit/1.2% +5 on 10A. Overload .8A Fuse on uA,mA 20A: 15sec/30min off. Fused @ 15A
AC VOLTS 6V to 750V, Accuracy 1% +8 LS digit, Impedance 10M ohm, Overload 750VRMS
AC CURRENT 600uA to 20A, Accuracy 1.2% + 8LS digit 2% +8 on 10A, 20A: 15sec/30min off. Fused @ 15A
CAPACITANCE 60nF to 100uF, Accuracy 10% + 25 LS digit, 2.5% +10 on 100uF,
RESISTANCE 600 to 60M Ohm, Accuracy .5% + 5LS digit, 2% + 10 on 60M Ohm.
FREQUENCY 1Hz-600KHz, Accuracy .2% + 3 LS digit,
OTHER Continuity buzzer <400Ohm, Diode/Transistor tests
T: 7-3/8" W: 3-5/8" D: 1-3/4" WT: .8

STOCK #	DESC.	1EA
16375-TE	True RMS DMM	\$89.00

AUTO RANGING DVM



Large .8" Character, 3-3/4 digit with bargraph LCD digital multimeter. With test leads, temperature probe, holster & instructions. Fuse & Diode protected
SPECIFICATIONS
DC VOLTS .3 to 1KV
DC CURRENT 300uA to 300mA, 20A (unfused) Impedance 10 Megohms
AC VOLTS 3 to 750V
AC CURRENT 300uA to 300mA, 20A (unfused)
RESISTANCE 300 to 30M
OTHER FEATURES Continuity Sounds when resistance is < 30 Ohms, Diode Test current of 1.5mA max, Hfe 2.8Vce Ib=10uA, Temperature 1800 deg F + 5% + 6 LS Digit, Battery 2 "AAA" not included.
For more information please visit our website
T: 7-1/2" W: 3-1/2" D: 1-3/4" WT: 1.1

STOCK #	DESC.	1EA	5+EA
9903-TE	Autorange DMM	\$29.95	\$27.95

**MANUAL RANGE
BACKLIT DMM**



Manual Range setting, Quality 3-3/4 digit (4000 count) DMM with .8" char. ht. backlit LCD display. Data Hold, AC & DC voltage/Current, frequency to 300KHz, Resistance to 40M Ohm, Fused input. Includes Test leads. **Batteries not Included**
DC VOLTS .4V to 1KV, Accuracy .5% +3LS digit, .8% +3 on 1KV. Impedance 10 Mohm
DC CURRENT 400uA to 10A, Accuracy .5% +3 LS digit/.8% on .4A/ 1.2% on 10A. Overload .5A Fuse on uA,mA, 10A: 15sec on/30min off. Fused @ 10A
AC VOLTS 4V to 750V, Accuracy 0.5% +3 LS digit, .8% + 3 on 750. Impedance 10M ohm, Overload 750VRMS
AC CURRENT 400uA to 10A, Accuracy .5% + 3LS digit .8% +3 on .4A, 1.2%+5 on 10A, Overload fuse. 10A: 15sec on/30min off. Fused @ 10A
RESISTANCE 400 to 40M Ohm, Accuracy .5% + 5LS digit, 1% + 3 on 40M Ohm.
FREQUENCY 10Hz-300KHz, Accuracy 1.8% + 5 LS digit, Sensitivity: .8-400V
OTHER Continuity buzzer <300Ohm, Diode/Transistor HFE
T: 7-3/8" W: 3-5/8" D: 1-3/4" WT: .8

STOCK #	DESC.	1EA
16372-TE	Manual Backlit DMM	\$29.95

TALKING MULTI METER



Talking, back lit, auto ranging, 3-3/4 digit, multimeter with Lighted test leads. Rubber case for protection. Soft sided, zippered belt case. Requires 3 "AA" batteries (not included). Pressing button on Red Test Probe causes meter to tell the Range & Value
SPECIFICATIONS/FEATURES:
 Volume control on back----10M ohm input impedance
 1KV Max DC/750V Max AC----1KV Max DC+AC
RANGES:
DC VOLTS: 4 to 1KV in 5 ranges
DC CURRENT: 40mA/400mA in 2 Ranges
AC VOLTS: TRUE RMS: 4 to 750V in 4 ranges
AC CURRENT: 40mA/400mA in 2 Ranges
RESISTANCE: 400 to 40M in 6 ranges
CAPACITANCE: 52nF to 100uF in 5 ranges
FREQUENCY: 5,000Hz to 20.00MHz in 4 ranges
CONTINUITY: "BEEP" <35 ohms
T: 6-1/4" W: 3-3/8" D: 1-1/2" WT: 1.3

STOCK #	DESC.	1EA
16562-TE	Talking Backlit DMM	\$39.95

**BACKLIT AUTORANGE
DMM**



Quality 3-3/4 digit (4000 count) DMM with .8" char. ht. backlit LCD display. Autoranging and Range & Data Hold, AC & DC voltage/Current, frequency to 400KHz, Capacitance, Resistance to 40M Ohm, Fused input. Includes Test leads, **9V Battery not Included**
DC VOLTS: .4V to 1KV, Accuracy .8% +5 LS digit Impedance 10 Mohm
DC CURRENT 400uA to 20A, Accuracy 1.2% + 5LS digit/1.8% on 4A/ 2% on 10A. Overload .5A Fuse on uA,mA, 20A: 15sec on/30min off. Fused @ 20A
AC VOLTS 4V to 750V, Accuracy 0.8% +8 LS digit, Impedance 10M ohm, Overload 750VRMS
AC CURRENT 400uA to 10A, Accuracy 1.2% + 8LS digit 2.5% +5 on 4A, 3%+5 on 10A, Overload fuse. 20A: 15sec on/30min off. Fused @ 20A
CAPACITANCE 4nF to 100uF, Accuracy 6% + 6 LS digit on 40nF, 2% +5 on others
RESISTANCE 400 to 40M Ohm, Accuracy .8% + 5LS digit, 1.2% + 10 on 40M Ohm.
FREQUENCY 10Hz-400KHz, Accuracy .2% + 3 LS digit,
OTHER Continuity buzzer <200Ohm, Diode/Transistor tests
T: 7-3/8" W: 3-5/8" D: 1-3/4" WT: .8

STOCK #	DESC.	1EA
16373-TE	Lge. Char. Backlit DMM	\$34.95

**LARGE CHARACTER
MULTIMETER**



1in.Character Hight, 3-1/2 digit LCD digital multimeter. With 9V battery, test leads & instructions. CE Listed
SPECIFICATIONS
DC VOLTS & CURRENT
 Ranges: Volts: 200m,2.0,20,200,1KV
 Accuracy: .5% +- 3 LS digit
 Overload: 200V ACrms for 200mV
 1KV/750RMS for all other
 Current: 200ua,2.0,20,200mA,10A
 Accuracy: 1% + 3 LS digit (2%/10A)
 Overload: 500mA Fuse/ Unfused 10A
AC VOLTS
 Ranges: Volts: 200,750V
 Accuracy: 1.2% +- 10 LS digit
 Overload: 1KV/750RMS for all other
RESISTANCE
 Ranges: 200,2K,20K,200K,2M
 Accuracy: <200: 1% +-10 LS Digit
 > 200: 1% +-2 LS Digit
 Overload: 200V AC/DC15Sec. Max.
DIODE & TRANSISTOR TEST:
 2.8VDC Test V
 10uA Base drive hFE
H: 5" W: 2-3/4" T: 1-1/4" WT: 1.2

STOCK #	DESC.	1EA	100+EA
17191-TE	Lg. Char. DMM	\$5.95	\$4.95

**AUTO RANGE
TRUE RMS DMM**



UL Listed, Auto Ranging, Quality 3-3/4 digit (4000 count) DMM with .8" char. ht. LCD display. Data & Range Hold, AC & DC voltage/Current, Frequency, Resistance, Temperature, Capacitance, Fused input. Includes Test leads & Temp. probe
Batteries not Included (2 X AA)
DC VOLTS .4V to 1KV, Accuracy .8% +1 LS digit, Impedance 10 Mohm
DC CURRENT 400uA to 20A, Accuracy 1.2% + 5 LS digit, 2% +5LS digit on 20A. Overload .5A Fuse on uA,mA, 20A: 15sec on/30min off. Fused @ 20A
AC VOLTS 4V to 750V, Accuracy 0.8% +8 LS digit, Impedance 10 Mohm
AC CURRENT 400uA to 20A, Accuracy 1.2% + 8LS digit, 3%+5 LS digit on 20A, Overload fuse. 20A: 15sec on/30min off. Fused @ 20A
RESISTANCE 400 to 40M Ohm, Accuracy .8% + 5LS digit, 1.2% + 10LS digit on 40M Ohm.
CAPACITANCE 4nF-100uF, Accuracy 6%+6LS digit on 40nF, 2% +5 LS digit other ranges
FREQUENCY 4Hz-400KHz, Accuracy .1% + 3 LS digit, 250V max
DUTY CYCLE 0.1%~99.9%, Accuracy 1.2% + 2 LS digit, Pulse Width: 100uS~100mS
TEMPERATURE
 C: -20~ 300deg Accuracy 3deg. C + 3 LS digit
 F: -4~ 572deg Accuracy 3deg. F +6 LS digit
OTHER Continuity buzzer <200Ohm, Diode/Transistor HFE
T: 7-1/4" W: 3-3/8" D: 1-3/4" WT: 1.1

STOCK #	DESC.	1EA
17350-TE	Auto True RMS DMM	\$59.00

LED TESTER



Compact, pocket sized checker/comparator for LEDs. 12 position test socket strip provides tes currents of 2,5,10,20,30 & 50mA. 7 center positions provide 10mA test current allowing you to compare several LED at the same time. Requires 9V battery (not supplied)
H: 3-1/8" W: 2-3/8" T: 7/8" WT: .1

STOCK #	DESC.	1EA	5+EA
14371-TE	LED Tester	\$6.95	\$5.95

DIGITAL MULTIMETER



Light weight 3-1/2" digit hand held meter with LCD display. With battery, test leads & instructions. Fuse & Diode Overload protection. 10A (Unfused) 9V Powered
SPECIFICATIONS
DC VOLTS & CURRENT
 Range Volts:
 .2,2.0,200,1KV
 Current: 200ua,2.0,20,200mA,10A
AC VOLTS
 Ranges Volts: 200,750V
RESISTANCE
 Ranges: 200-2K-20K-200K-2M
 Test V: 2.8 VDC open cir.
MISCELLANEOUS
 Diode Test: ~1.5mA
 Transistor Test: Test I =~10uA Vce=~2.8V
 Accuracy: 2% worst case (10A range)
H: 5" W: 2-5/8" T: 1" WT: .9

STOCK #	DESC.	1EA
17892-TE	Lightweight 3.5 Digit DMM	\$6.95

3M TALKING LAN TESTER

MFG: 3M CORP.
P/N: DT-1000

Talking tester checks for shorts, opens in 1,2 & 4 pair cables as well as 50/75 ohm coax cables. Top panel RJ-jacks accepts 4/6/8 pin MOD connectors. 2 "F" connectors in end for Coax cables. Unit responds to test button with "OPEN" "SHORT", or "GOOD" Red & Green LEDs for cross wired cables. Requires 9V battery (not Included) Protective rubber overcase. UL/canada/usa listed.

L: 4-5/8" W: 2-3/4" D: 13/16" WT: .6

STOCK #	DESC.	1EA	10+EA
16731-TL	3M Talking LAN Tester	\$9.95	



CABLE TRACER

Two part cable tracer with 2 test leads & a 4 conductor MOD cable. Tone generator sends signal into cable that can be traced by probe. Generator features: color LED for Phone line polarity, continuity and voltage testing. 30in Red, Black leads, 12in Phone cable, Mode switch. Probe features: Non-conductive, inductive tip, Adj. volume level, Probe works with most existing tone generators. Both use 9V batteries. Includes zippered cloth carry pouch.



WT: .52

STOCK #	DESC.	1EA	10+EA
6812-TE	Wire/Cable Tracer	\$19.95	

FIBER OPTIC TESTER

2 piece unit allows testing of installed lines. Receiver displays signal level. Test Wavelength: 1300nm. Fiber Core: 62.5/125uM (Multi-mode) Range: -20~-40dbm also "HI" & "LO" when outside range Termination: ST Female Requires 9V battery for each unit (Not Supplied). Includes zippered cloth case.



L: 4-1/2" W: 2-1/2" T: 1" WT: .5 (Pair)

STOCK #	DESC.	1EA	10+EA
6820-TE	Fiber Optic Test Set	\$120.00	

MULTIFUNCTION CABLE TESTER

2 piece unit allows testing of installed lines. Tests RJ-45/4-Pair or Coaxial cables. Instant diagnosis for opens, shorts, miswires, split pairs etc. LEDs indicate status as well as actual pin-pin connections. 9V battery powered. Includes zippered cloth case.



WT: .6

STOCK #	DESC.	1EA	5+EA
15036-TE	Multi Cable Tester	\$9.95	\$8.95

MINI LED PANEL METER



CX102

3-1/2 Digit, 200.0mV DC input, . Compact, LED DPM with black plastic face. 1/2" character height, adj. decimal point, auto polarity, >10Mohm input imp. 2 readings/sec., .05% accuracy. Snap-in panel mounting. Gold plated pins on .10" spacing. RECOMMEND YOU PURCHASE SCALE BOARD 12209-ME Scaling board for 20V,200V & 500V.Plugs on back. MUST BE ORDERED SEPARATELY



5 VDC powered, Meter power and Input can share a common Ground (-input/-Power)
W: 2-7/16" H: 1" D: 1-13/16" WT: .07

STOCK #	DESC.	1EA	10+EA
12208-ME	Mini 5VLED Panel Meter	\$14.95	\$10.49

5V MINI LCD PANEL METER



CX101

3-1/2 Digit, 200.0mV DC input. Compact, LCD DPM with black plastic face. 1/2" character height, adj. decimal point, auto polarity, >10Mohm input imp. 2 readings/sec., .05% accuracy. Snap-in panel mounting. Gold plated pins on .10" spacing. RECOMMEND YOU PURCHASE SCALE BOARD 12209-ME Scaling board for 20V,200V & 500V.Plugs on back. MUST BE ORDERED SEPARATELY



5 VDC powered, Meter power and Input can share a common Ground (-input/-Power)
W: 2-7/16" H: 1" D: 1-13/16" WT: .07

STOCK #	DESC.	1EA	10+EA
12206-ME	Mini 5VLCD Panel Meter	\$13.50	\$10.90
12205-ME	Mini 9VLCD Panel Meter	\$13.50	\$10.90

DPM SCALE BOARD

SCALE BOARD FOR 12205, 12206, 12207, 12208 DPM'S Scale board plugs on back of meter. Includes scaling resistors for 20V,200V & 500V ranges.



WT: .1

STOCK #	DESC.	1EA	10+EA
12209-ME	DPM Scale Board	\$4.50	\$4.20

MULTI FUNCTION PANEL METER

Compact, Auto polarity, 3-1/2 Digit, 1/2" character height, reflective LCD panel meter with black plastic bezel & face plate. Adj. decimal point, .8% accuracy (1% AC). >100Mohm input imp. Chip On Board design for economy & compactness. For battery powered monitoring or test equipment. RANGES: (jumper selected)
ADC: 200mA VAC: 200V/500V VDC: 200mV/2V/20V/200V/500V Selectable Power: 9VDC (Isolated power) or 5VDC (input & power can share common Ground)
W: 2-5/8" H: 1-3/4" D: 3/8" WT: .1



STOCK #	DESC.	1EA	15+EA
16177-ME	Multi.LCD Panel Meter	\$8.95	\$8.40

LARGE DIGIT PANEL METERS

3-1/2 digit, LED, 200.0mV DC basic input, .8" character height, DPMs with black plastic face. adj. decimal point, auto polarity, >100Mohm input imp. 2 readings/sec., 0.5% accuracy. Snap-in panel mounting. Built in scaling resistors for 20V, 200V & 500V ranges 5 VDC powered, Meter power and Input can share a common Ground (-input/-Power)
W: 3-3/8" H: 1-5/8" D: 1" O/A WT: .13



STOCK #	DESC.	1EA	10+EA
12308-ME	5V LED Panel Meter	\$12.95	\$11.95

BACKLIT LCD METER

Compact,200mV input, Auto polarity, 3-1/2 Digit, 1/2" character height, Back lit LCD panel meter with black plastic bezel & face plate. Adj. decimal point, .5% accuracy. >100Mohm input imp. Chip On Board design for economy & compactness. For battery powered monitoring or test equipment.Through panel mounting. 9 VDC powered, Meter power must be isolated from input (Cannot monitor own power source).



AVAILABLE: Scaling Resistors for you to install.
20.0 VDC Resistor set 12073-RS
200 VDC Resistor set 12074-RS
W: 2-3/4" H: 1-3/4" D: 1-1/8" (Inc. Bezel) WT: .13

STOCK #	DESC.	1EA	10+EA
11273-ME	9V BackLit Panel Meter	\$12.95	\$11.95
12073-RS	20V Resistors	\$1.00	\$0.90
12074-RS	200V Resistors	\$1.00	\$0.90

LCD PANEL THERMOMETER

Compact LCD panel temperature meter. Range -50 to +119.9 Deg. "F". 12mm character height. 4ft cord connects display to the temperature probe. Requires 1 "LR1130" button cell. (Not included). 4 corner mtg. holes.



L: 2-3/8" H: 1-3/16" T: 5/16" WT: .07

STOCK #	DESC.	1EA	10+EA
16370-ME	LCD Temp. Panel Meter	\$3.95	

SNAP-IN LCD PANEL METER

Compact, Snap-In, 200mV 3-1/2 Digit, reflective LCD Digital panel meter with black plastic bezel & face plate. New Chip On Board design for economy as well as compactness. Ideal for battery powered monitoring or test equipment.



Basic meter features:
1/2" character height Adj. decimal point
Auto polarity >100Mohm input imp.
2 readings/sec., .5% accuracy.
Snap-In Through front of panel
9 VDC powered, Meter power must be isolated from input (Cannot monitor own power source).
W: 2-5/8" H: 1-9/16" D: 3/4" WT: .1

STOCK #	DESC.	1EA	10+EA
15978-ME	9V Snap-In LCD DPM	\$9.95	\$8.95
12073-RS	20V Resistors	\$1.00	\$0.90
12074-RS	200V Resistors	\$1.00	\$0.90

LCD PANEL METERS

200mVDC Compact, 3-1/2 Digit, reflective LCD Digital panel meter with black plastic bezel & face plate. Chip On Board design for economy as well as compactness. Ideal for battery powered monitoring or test equipment.



Basic meter features:
1/2" character height Adj. decimal point
Auto polarity >100Mohm input imp.
2 readings/sec., .5% accuracy.
Through panel mounting.
9 VDC powered, Meter power must be isolated from input (Cannot monitor own power source).
5 VDC powered, Meter power and Input can share a common Ground (-input/-Power)
AVAILABLE: Scaling Resistors for you to install.
20.0 VDC Resistor set 12073-RS
200 VDC Resistor set 12074-RS
W: 2-5/8" H: 1-3/4" D: 3/8" WT: .1

STOCK #	DESC.	1EA	25EA	100+EA
6929-ME	9V LCD DPM	\$7.95	\$6.40	\$5.95
15977-ME	5V LCD DPM	\$10.95	\$9.95	\$8.95
12073-RS	20V Resistors	\$1.00	\$0.80	\$0.70
12074-RS	200V Resistors	\$1.00	\$0.80	\$0.70



WATCH

Full 360 Deg. Video of Items displaying these logos On-Line, in our Catalogs & Flyers.

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LARGE DIGIT PANEL METERS



3-1/2 digit, LCD, 200.0mV DC basic input, .8" character height, DPMs with black plastic face. adj. decimal point, auto polarity, >100Mohm input imp. 2 readings/sec., 0.5% accuracy. Snap-in panel mounting. Built in scaling resistors for 20V, 200V & 500V ranges **9 VDC powered**, Meter power must be isolated from input (Cannot monitor own power source). **5 VDC powered**, Meter power and Input can share a common Ground (-input/-Power)

W: 3-3/8" H: 1-5/8" D: 1" O/A WT: .13

STOCK #	DESC.	1EA	10+EA
12305-ME	9V LCD Panel Meter	\$9.95	\$9.49
12306-ME	5V LCD Panel Meter	\$9.95	\$9.49

DUAL RANGE LED PANEL METER



3-1/2 Digit, 200.0mV/20V DC input. Compact, LED DPM with black plastic face. .56" character height, adj. decimal point, auto polarity, >1Mohm input imp. 2 readings/sec., .2% accuracy. Snap-in panel mounting. Header connector for input/output. (Includes mating connector with leads.) DIP Switch for Decimal point, Differential input, and 100X input (Switch "ON" for 20V input) selection. **5 VDC powered**, Meter power and Input can share a common Ground (-input/-Power) EXCEPT in "Differential" mode.

W: 72mm H: 36mm D: 27mm WT: .13

STOCK #	DESC.	1EA
16565-ME	Mini 5VLED Panel Meter	\$9.95

4-1/2 DIGIT PANEL METER



200.00mV DC input, Compact 4-1/2 Digit LCD DPM with black plastic face. 3/8" character height, adj. decimal point, auto polarity, >100Mohm input imp. 2 readings/sec., .05% accuracy. Through panel mounting. Holes on board to add scale resistors. **9V powered**, Meter power must be isolated from input (Cannot monitor own power source).

W: 2-5/8" H: 1-3/4" D: 1/2" WT: .1

STOCK #	DESC.	1EA	10+EA
7160-ME	4-1/2 Digit Panel Meter	\$18.95	\$17.95
12073-RS	20V Resistors	\$1.00	\$0.90
12074-RS	200V Resistor	\$1.00	\$0.90

LED DIGITAL PANEL METER



3-1/2 Digit LED DPM with black plastic bezel & face plate. .56" character height, 200mV DC input, adj. decimal point, auto polarity, >100Mohm input imp. 2 readings/sec., 9V powered, .5% accuracy. Through panel mounting. Holes on board to add scale resistors. Meter power must be isolated from input (Cannot monitor own power source).

W: 2-5/8" H: 1-3/4" D: 3/8" WT: .1

STOCK #	DESC.	1EA	10+EA
7516-ME	LED Panel Meter	\$11.95	\$10.95
12073-RS	20V Resistors	\$1.00	\$0.90
12074-RS	200V Resistor	\$1.00	\$0.90

DC AMP PANEL METERS



ELENCO DC panel meters, Black legends/Red over-range, Plastic case. Back Mounts in 2" X 1-1/8" cutout NO MOUNTING HARDWARE

W: 2-1/4" H: 1-7/8" D: 1-1/4" WT: .1

STOCK #	DESC.	1EA	10+EA
5336-ME	0-3A DC Ammeter	\$6.95	\$6.59

SWITCHBOARD PANEL METERS



Quality switchboard panel meters. Accuracy: 2-1/2%. Black legends and pointer on white face with mirror scale. Plastic case with "zero" adjustment. Front mounts in 1-1/2" hole. Four mounting screws on 1-1/4" ctrs. 30A DC meter includes External Shunt. 5A AC meter includes external CT.

W: 2-3/16" H: 1-13/16" D: 1-1/2" WT: .16 (.35 for 30A)

STOCK #	DESC.	1EA
17671-ME	0-15V DC Voltmeter	\$8.95
17672-ME	0-30V DC Voltmeter	\$8.95
17674-ME	0-3A DC Ammeter	\$8.95
17679-ME	0-30A DC Ammeter/Shunt	\$9.95
17681-ME	0-150V AC Voltmeter	\$8.95
17683-ME	0-5A AC Ammeter	\$9.95

GENERAL PURPOSE VOLT & AMP METERS



Quality general use panel meters. Accuracy: 2-1/2%. Black legends on white face. Plastic case with "zero" adjustment. Front mounts in 1.772" (45mm) hole. Two mounting screws on diagonal.

W: 2-3/4" H: 2-1/4" D: 1-7/8" WT: .2

STOCK #	DESC.	1EA
16555-ME	0-30V DC Voltmeter	\$7.95
17251-ME	0-50uA DC Ammeter	\$7.95
17252-ME	0-1mA DC Ammeter	\$7.95
17253-ME	0-5A DC Ammeter	\$7.95
17254-ME	0-15A DC Ammeter	\$7.95
16556-ME	0-30A DC Ammeter	\$7.95
16557-ME	0-150VAC Voltmeter	\$7.95
17255-ME	0-3A AC Ammeter	\$7.95
16558-ME	0-15AAC Ammeter	\$12.95

DC CURRENT SHUNTS



Panel mount DC current shunts for use with 50mV or 100mV DC ammeters. Type A have Thermoplastic mounting base with mounting holes. Screw terminals for input & meter leads. B,C,D have bolts for input.

A: L: 4-3/4"	W: 1"	H: 3/4"	WT: .2
B: L: 3-7/8"	W: 3/4"	H: 1-1/2"	WT: .42
C: L: 3-5/8"	W: 7/8"	H: 1-1/2"	WT: .34
D: L: 4-5/8"	W: 7/8"	H: 1-1/2"	WT: .35

STOCK #	FIG	DESC.	1EA	5+EA
15320-ME	A	10 A/50mV Shunt	\$6.95	\$5.49
15321-ME	A	25 A/50mV Shunt	\$6.95	\$5.49
16360-ME	A	30 A/75mV Shunt	\$6.95	\$5.49
15322-ME	A	50 A/50mV Shunt	\$6.95	\$5.49
15324-ME	A	10 A/100mV Shunt	\$6.95	\$5.49
15431-ME	B	100 A/50mV Shunt	\$7.95	\$6.95
17298-ME	C	100 A/50mV Shunt	\$7.95	\$6.95
17299-ME	D	100 A/100mV Shunt	\$7.95	\$6.95

DC VOLT PANEL METERS



ELENCO DC panel meters, Black legends/Red over-range, Plastic case. Back Mounts in 2" X 1-1/8" cutout NO MOUNTING HARDWARE

W: 2-1/4" H: 1-7/8" D: 1-1/4" WT: .1

STOCK #	DESC.	1EA	10+EA
5332-ME	0-15V DC Voltmeter	\$6.95	\$6.59
5333-ME	0-30V DC Voltmeter	\$6.95	\$6.59
5334-ME	0-40V DC Voltmeter	\$6.95	\$6.59

SWITCHBOARD VOLT & AMP METERS



Quality switchboard panel meters. Accuracy rated 2-1/2%. Black legends on white face with red tip pointer. Plastic case with "zero" adjustment. Front mounts in 2-3/8" (60mm) hole. Two mounting screws. AC & DC ranges. 30A DC meter includes Shunt.

W: 3-1/8" H: 2-1/2" D: 2-3/8" WT: .24

STOCK #	DESC.	1EA	10+EA
8718-ME	0-15V DC Voltmeter	\$13.95	\$12.95
8719-ME	0-30V DC Voltmeter	\$13.95	\$12.95
8720-ME	0-50V DC Voltmeter	\$13.95	\$12.95
8722-ME	0-150VAC Voltmeter	\$13.95	\$12.95
8725-ME	0-100uA DC Ammeter	\$13.95	\$12.95
8726-ME	0-1mA DC Ammeter	\$13.95	\$12.95
8733-ME	0-30A DC Ammeter	\$15.95	\$14.95
8735-ME	0-5A AC Ammeter	\$13.95	\$12.95
8736-ME	0-15A AC Ammeter	\$13.95	\$12.95

SCOPE PROBES SELECTABLE 10X OR 1X



Quality oscilloscope probes with a BNC connector to match to most equipment. Max Input: 600V AC P/P + DC. Impedance: 1X= 1M ohm; 10X= 10M ohm. With ground lead & retractable hook tip, IC tip. For field service, schools or shop. **20MHz PROBE:** Bandwidth: 1X = >15MHz +3db. 10X=>20MHz +3db; Capacitance 1X = 46pF; 10X = 15pF, (+ scope input) **40MHz PROBE:** Bandwidth: 1X = >15MHz +3db. 10X=>40MHz +3db; Capacitance 1X = 46pF; 10X = 15pF, (+ scope input) **60MHz PROBE:** Bandwidth: 1X = >15MHz +3db. 10X=>60MHz +3db; Capacitance 1X = 46pF; 10X = 15pF, (+ scope input). **100MHz PROBE:** Bandwidth: 1X = >6MHz +3db. 10X=>100MHz +3db. Capacitance 1X = 150pF; 10X=14pF, (+ scope input). **200MHz PROBE:** Bandwidth: 1X = >10MHz +3db. 10X=>200MHz +3db; Capacitance 1X = 46pF; 10X = 11pF, (+ scope input); L: 1.2m WT: .2

STOCK #	DESC.	EA
15085-TE	20MHz Probe	\$7.95 any qty.
15086-TE	40MHz Probe	\$8.95 any qty.
8630-TE	60MHz Probe	\$9.95 any qty.
8682-TE	100MHz Probe	\$15.95 any qty.
15087-TE	200MHz Probe	\$18.95 any qty.

250MHZ HV SCOPE PROBES



Quality 250MHz oscilloscope probes with a BNC connector to match to most equipment. Impedance: 100X= 100M ohm. With ground lead & retractable hook tip, IC tip. For field service, schools or shop. CEListed

1.2KV PROBE: Working Voltage: 1,200VDC + Pk AC. Bandwidth: 100X = >250MHz +3db. Capacitance 1X = 6.5pF(+ scope input)

L: 1.2m WT: .2

STOCK #	DESC.	1EA
18147-TE	1.2KV 250MHZ Probe	\$34.95

2.0KV PROBE: Working Voltage: 2,000VDC + Pk AC. Bandwidth: 100X = >250MHz +3db. Capacitance 1X = 6.5pF(+ scope input)

L: 1.2m WT: .2

STOCK #	DESC.	1EA
18148-TE	2.0KV 250MHZ Probe	\$38.95

DIFFERENTIAL SCOPE PROBE



Quality 35MHz Differential oscilloscope probe with a BNC connector to match to most equipment.
 For use in circuits that are referenced to high common mode voltages and floating high voltages.
 Bandwidth: 35MHz (-3db)
 Impedance: 1/1=10M/5PF
 10/1=10M/5PF
 100/1= 11M/5PF
 Differential DC Input Resistance: 20M Ohm
 Max. Input Diff.: Volts: (DC+AC)
 1/1=+10V
 10/1=+100V
 100/1=+1000V
 Max. Common Mode:
 1/1= +100V
 10/1=+100V
 100/1=+1000V
 Output: +10V into 1M scope input (2X if into 500hm input.)
 Output Imp.: 50 Ohms
 CMRR: >40db @ 1MHz.
 Input leads: 40cm (15in)
 Output BNC Cable: 90cm (35+in.)
 Ground Lead: (Banana Plug to scope) 16cm (6in.) lead from BNC connector.
 Includes: 2 retractable hook tips for input leads. and 6V @ 400mA Plug-in power supply
 Requires 4 "AA" batteries (Not included) for portable use.
 L: 6.9" W: 2.52" T: .9" Ship. WT: 2.5

STOCK #	DESC.	1EA	5+EA
18149-TE	Differential Scope Probe	\$295.95	

ATTENUATORS TERMINATOR



Impedance: 50 ohms
 Range: DC-1GHz
 Vswr: <1.5:1
 Power: 1W
 BNC-M to BNC-F Attenuators & feedthrough terminator for test equipment, probes and fixtures

WT: .2

STOCK #	DESC.	1EA	5+EA
16545-TE	3db BNC Attenuator	\$9.95	\$7.95
16546-TE	6db BNC Attenuator	\$9.95	\$7.95
16547-TE	10db BNC Attenuator	\$9.95	\$7.95
16548-TE	20db BNC Attenuator	\$9.95	\$7.95
16549-TE	50ohm BNC Terminator	\$9.95	\$7.95

TEST PROBE SET



General purpose, pair of red and black test probes, 36in leads with banana plugs on one end nickel plated brass probe on other.
 L: 36" WT: .15

STOCK #	DESC.	1EA	5+EA
11214-TE	Banana Test Probe	\$1.75	\$1.49

TEST PROBE SET



General purpose, pair of red and black test probes, 30in leads with pin plugs on one end and semi-flexible 4" handle with 7/8" nickel plated brass probe on other.
 L: 30" WT: .1

STOCK #	DESC.	1EA	5+EA
6320-TL	Pin Test Probe	\$1.50	\$1.39

MICRO CLIP TEST LEADS



Red & Black test leads with Banana Plugs on one end and Micro clips on the other.
 L: 34" WT: .07

STOCK #	DESC.	1EA	10+EA
15971-TE	Test Hook Leads	\$1.95	\$1.79

GOLD PLATED 40PC. UNIVERSAL COAX ADAPTER SET



Universal adapter kit allows you make up "Tween" connectors match almost any application. Quality set made of Gold plated machined brass, Gold plated phosphor bronze center pins and Teflon insulators. high density foam hold connectors in the zippered soft padded case. Kit contains 8 inter-connectors that are used to mate the adapters pairs together. Contains 2 ea: "N" Male, "N" Female, UHF Male, UHF Female, Mini UHF Male, Mini UHF Female, BNC Male, BNC Female, TNC Male, TNC Female, RCA Male, RCA Female, "F" Male, "F" Female, SMA Male, SMA Female. Ideal field service or lab use.
 WT: 1.7

STOCK #	DESC.	1EA
15909-TE	Univ. Coax Adapters	\$119.00

ALLIGATOR CLIP LEAD SET



Handy set of 10 multi colored clip leads. 26 AWG leads 12" long , with insulated 27mm or 35mm alligator clips on each end, 2 leads each in five colors. For shop or lab.
 L: 12" WT: .2

STOCK #	DESC.	1EA	5+EA
3569-TE	Mini Clip Lead Set 27mm	\$1.99	\$1.75
16434-TE	Clip Lead Set 35mm	\$2.50	\$1.99

MED. ALLIGATOR CLIP LEAD SET



Handy set of 5 multi colored clip leads. 24 AWG leads 12" long , with insulated 45mm alligator clips on each end, 1 lead each in five colors. For shop or lab.
 L: 12" WT: .2

STOCK #	DESC.	1EA	5+EA
16435-TE	Med. Clip Lead Set	\$2.50	\$1.99

BATTERY CLIP LEAD SET



Handy set of 6 multi colored clip leads. 24 AWG leads 12" long , with insulated 10mm mesh jaw clips on each end, 1 lead each in six colors. For shop or lab.
 L: 12" WT: .2

STOCK #	DESC.	1EA	5+EA
16436-TE	Clip Lead Set	\$2.99	\$2.50

BANANA PLUGS



Red/black banana plugs with nickel plated brass Four leaved spring tip, thermoplastic cover. Solder connection.
 WT: 05

STOCK #	DESC.	1EA	10+EA
8070-PL	Red Banana Plug	\$0.25	\$0.19
8071-PL	Black Banana Plug	\$0.25	\$0.19

ALLIGATOR CLIPS & BOOTS



Alligator clips with Red or Black Vinyl boot. Solder or crimp. mm listed is length of metal clip

STOCK #	DESC.	WT.	1EA	5+EA
16450-AL	27mm Clip Red	.003	\$0.10	\$0.05
16451-AL	27mm Clip Blk	.003	\$0.10	\$0.05
16452-AL	35mm Clip Red	.005	\$0.15	\$0.07
16453-AL	35mm Clip Blk	.005	\$0.15	\$0.07
16454-AL	45mm Clip Red	.009	\$0.19	\$0.09
16455-AL	45mm Clip Blk	.009	\$0.19	\$0.09
16456-AL	50mm Clip Red	.013	\$0.29	\$0.12
16457-AL	50mm Clip Blk	.013	\$0.29	\$0.12

TEST CABLES



RG-58U test cable with a molded strain relief BNC connector on one end and red & black clips on the other. RG-58 cable is 3ft long with an additional 4-1/2" of red & 8" of black wire from a strain relief to the clips.
 L: 40" WT: .3

STOCK #	DESC.	1EA	5+EA
2802-TE	Test Hook Cable	\$3.99	\$2.99
12845-TE	Alligator clips Cable	\$3.99	\$2.99
12819-TE	Banana Plugs Cable	\$3.99	\$2.99

MICRO CLIP TEST LEADS



Red & Black test leads with a molded BNC Female on one end and Micro clips on the other.
 L: 5" WT: .03

STOCK #	DESC.	1EA	10+EA
17559-TE	5in. Test Hook Leads	\$3.95	\$2.95

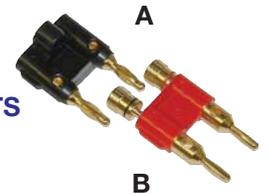
TEST HOOKS



Red & Black beryllium copper test hooks designed to clip to component leads leaving your hands free. 1-1/2" probe length, 2-1/4" long overall, 1/2" body Dia. Add your own wire for custom lengths. For lab, shop or school.
 WT: 005

STOCK #	DESC.	1EA	25+EA
7161-MI	Red Component Clip	\$0.50	\$0.45
7163-MI	Black Component Clip	\$0.50	\$0.45

DUAL BANANA/BINDING POSTS



Quality, Gold plated, stackable, .75" C/C spacing. For test equipment & cables. Dual banana plug with: Binding Posts OR Set screws to attach wire, cable, component or spade lugs.
 WT: .11 (Banana/Posts) WT: .03 (Banana only)

STOCK #	DESC.	1EA	10+EA
14901-PL	Red Dual Banana Plug A	\$1.25	\$0.99
14902-PL	Black Dual Banana Plug A	\$1.25	\$0.99
14903-PL	Red Dual Binding Post B	\$2.50	\$1.95
14904-PL	Black Dual Binding Post B	\$2.50	\$1.95

BATTERY CLIPS & BOOTS



Handy mesh jaw, steel battery clip with insulated Red or Black Vinyl plastic boot. Amp listed is Max for part.

STOCK #	DESC.	WT.	1EA	5+EA
16437-BC	5A Clip Red	.015	\$0.25	\$0.15
16438-BC	5A Clip Black	.015	\$0.25	\$0.15
16439-BC	10A Clip Red	.05	\$0.35	\$0.25
16440-BC	10A Clip Black	.05	\$0.35	\$0.25
16441-BC	20A Clip Red	.03	\$0.40	\$0.30
16442-BC	20A Clip Black	.03	\$0.40	\$0.30
16443-BC	30A Clip Red	.04	\$0.45	\$0.35
16444-BC	30A Clip Black	.04	\$0.45	\$0.35
16445-BC	50A Clip Red	.06	\$0.59	\$0.49
16446-BC	50A Clip Black	.06	\$0.59	\$0.49

BREADBOARDS



A B C D E F

ABS plastic body, Aluminum mounting base for figures B,C,D and E. Nickel plated phosphor bronze contacts. Contact resistance less than 1 milliohm @ 1kHz. Tested for over 10,000 cycles. Snap lock molded dovetail for combining multiple boards, Suitable for 19-29 AWG wire & all DIP size components. Please visit our web site for more detailed information.

STOCK #	FIG.	DESCRIPTION	SIZE L X W	WT.	1EA	10EA
4443-TE	A	830 point	6-1/2" X 2-1/8"	.3	\$4.95	\$3.95
4444-TE	B	830 point 3 Binding Post and Jumper kit	7-7/8" X 4-1/8"	.6	\$9.95	\$8.95
4445-TE	C	1660 point 3 Binding Post and Jumper Kit	8-3/8" X 5-1/8"	.9	\$12.95	\$11.49
4446-TE	D	2390 point 4 Binding Post and Jumper Kit	10-1/8" X 7-7/8"	1.3	\$18.95	\$16.95
4447-TE	E	3220 point 4 Binding Post and Jumper Kit	10-3/8" X 9-1/8"	1.5	\$22.95	\$19.49
7027-TE	F	90 Piece 22 AWG Jumper Wire Kit		.3	\$3.95	\$3.49

POWERED PROTO-TYPE SYSTEM



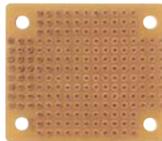
Breadboard with built-in multi-output power supply with LCD Meters. Dual LCD Meters monitor the + & - Variable output supplies.

Features: 2 LCD Voltmeters, 4 power supply binding posts, 5 Distribution strips (500 pts), 3 Breadboard panels (1890Pts.), one +5VDC @ 1A supply, one 0 to +15VDC @ .5A supply, one 0 to -15VDC @ .5A supply. All parts are mounted in a metal case. Includes 6ft. IEC power cord.

W: 8" D: 10-1/2" T: 3-1/2" WT: 5.7

STOCK #	DESC.	1EA
17710-TE	Metered Powered Breadboard	\$89.95

1-3/4" X 1-1/2" PROTO BOARD



Single Sided .062" phenolic board .1" pad spacing unplated copper pads

Mini general purpose prototyping board. 17 X 14 grid pattern with 202 total holes (9 missing in corners). Holds 1+ 14 or 16 pin ICs with room for several discrete components. Ideal for interface or signal isolation circuits. Fits 15917-BX Case.

L: 1-3/4" W: 1-1/2" WT: .009

STOCK #	DESC.	1EA	10+EA
15918-PB	Mini Proto Board	\$0.59	\$0.39

1215 POINT PROTOBOARD

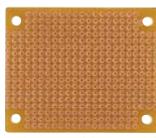


1215 hole (15 X 81) breadboard patterned similar to our 830 hole breadboard (4443-TE). Center holes are uncommitted. Holes either side are bussed 7 X 1. Does not have Buss down sides. Holds approx 9pcs 14/16 pin ICs

L: 8-7/16" W: 1-1/2" WT: .04

STOCK #	DESC.	1EA	10+EA
15565-PB	1215 Proto Board	\$2.95	\$2.49

2-5/16" X 1-15/16" PROTO BOARD



Single Sided .062" phenolic board .1" pad spacing unplated copper pads

Mini general purpose board for prototyping. 23 X 18 grid pattern with 378 total holes (9 missing in corners). Holds 2+ 14 or 16 pin ICs with room for several discrete components. Ideal for interface or signal isolation circuits. Fits 15915-BX.

L: 2-5/16" W: 1-15/16" WT: .013

STOCK #	DESC.	1EA	10+EA
16227-PB	Small Proto Board	\$0.79	\$0.49

3-3/16" X 2-1/2" PROTO BOARD



Single Sided, .062" phenolic board, .1" pad spacing, unplated copper pads. 31 X 24 grid pattern with 708 total holes (9 missing in corners). Holds 3+ 16 pin ICs. Fits 15913-BX Case.

L: 3-3/16" W: 2-1/2" WT: .024

STOCK #	DESC.	1EA	10+EA
15914-PB	Medium Proto Board	\$1.10	\$0.79

4-5/16" X 3-1/8" PROTO BOARD



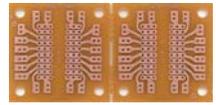
Single Sided .062" phenolic board .1" pad spacing unplated copper pads

General purpose board for prototyping. 42 X 31 grid pattern with 1293 total holes (9 missing in corners). Holds 10+ 14 or 16 pin ICs with room for several discrete components. Ideal for interface or signal isolation circuits. Fits 15911-BX Case.

L: 4-5/16" W: 3-1/8" WT: .036

STOCK #	DESC.	1EA	10+EA
15912-PB	Large Proto Board	\$1.75	\$1.10

DUAL IC PROTO BOARD



Single Sided .062" phenolic board .1" pad spacing unplated copper pads

Small general purpose board is actually 2 snap apart boards for prototyping. Each holds one 20 pin IC or 3 discrete parts with .300-.700" width.

L: 3-5/8" W: 1-3/4" WT: .02

STOCK #	DESC.	1EA	10EA	25+EA
12349-PB	Dual IC P/B	\$1.45	\$1.25	\$0.99

IC PROTO BOARD



Single Sided .062" phenolic board .1" pad spacing unplated copper pads

Small general purpose board for ICs. 2 buss strips down center. Other holes connected to allow connecting to IC lead holes. 417 total holes. Holds up to six 14 or 16 pin ICs.

L: 2-13/16" W: 1-7/8" WT: .02

STOCK #	DESC.	1EA	10EA	25+EA
12348-PB	IC Proto Bd.	\$1.50	\$1.19	\$0.95

COPY SHEETS



8-1/2" X 11" clear film suitable for LASER copier or printer to make artwork POSITIVES from magazines etc. Also can be used by directly taping, placing patterns or opaque inks to generate artwork. PACK OF 5 Sheets

WT: .12

STOCK #	DESC.	1EA	5+EA
14875-DT	5pcs. Copy Film Sheets	\$4.49	\$3.75

PREMIER SERIES COATED BOARDS



Premier Series boards are ideal for repeatedly making PC boards from POSITIVE films (Opaque lines/patterns on clear film). Resist coated Premier boards do not require U/V light, only a 100W light bulb. Double (DS) or single sided (SS) copper clad PC Board material. FR4 Base material with 1oz. copper/side coated with resist and covered with a peel off plastic sheet (removed before exposure). Exposing frame recommended.

STOCK #	DESC.	WT.	1EA	5+EA
14880-DT	3" X 4" S/S	.1	\$4.95	\$4.49
14881-DT	3" X 6" S/S	.12	\$5.95	\$4.95
14882-DT	4" X 6" S/S	.15	\$6.82	\$5.99
14883-DT	6" X 9" S/S	.3	\$11.00	\$10.85
14884-DT	6" X 12" S/S	.4	\$17.95	\$15.95
14885-DT	3" X 4" D/S	.1	\$5.49	\$4.49
14886-DT	6" X 6" D/S	.22	\$10.95	\$9.95
14887-DT	6" X 9" D/S	.33	\$13.95	\$12.49
14888-DT	6" X 12" D/S	.5	\$19.95	\$18.95

COPPER CLAD BOARDS



Double (DS) or single sided (SS) copper clad PC Board material. Standard 1/16" thick FR4 Base material with 1oz. copper/side

STOCK #	DESC.	WT.	1EA	5+EA
14868-DT	3" X 5" S/S	.1	\$1.95	\$1.49
14869-DT	4" X 6" S/S	.12	\$2.25	\$1.95
14870-DT	6" X 9" S/S	.3	\$4.75	\$3.95
14871-DT	6" X 6" D/S	.2	\$3.95	\$3.25
14872-DT	8" X 10" D/S	.4	\$12.49	\$10.95

COPPER CLAD BOARD



12" X 12" Double Sided copper clad PC Board material. 1.6mm (1/16") thick FR4 Base material with 1oz. copper/side.

Sq: 12" WT: .74

STOCK #	DESC.	1EA	10+EA
15537-BD	12 X 12 Copper Clad	\$8.95	\$7.95

TIN PLATING KIT



Will plate a copper board with a bright, protective tin plate approx. .0004" thick. Improves solderability, resists oxidation/tarnish & produces a professional appearance. Supplied as a dry power concentrate. When mixed will plate approx. 600sq./in. Kit includes: Concentrate, Tray, handling tool & 16oz. storage bottle for mix.

WT: .6/4

STOCK #	DESC.	1EA	5+EA
14896-DT	Tin Plating Kit	\$16.95	\$15.49
14897-DT	1 Pt. Concentrate	\$7.50	\$7.25

PREMIER BOARD DEVELOPER



Concentrated developer (not etchant) for PREMIER Resist coated board material. Mix 10/1 with water. 10 oz. of mix will develop 10-22sq. ft. of board depending on art complexity.

WT: .2/6

STOCK #	DESC.	1EA	5+EA
14890-DT	2oz. Developer	\$7.95	\$7.49
14891-DT	4oz. Developer	\$13.95	\$13.49

THOUSANDS more items on www.mpja.com

BOARD ETCHANT



Dry concentrated Ferric Chloride. A dry powder that is mixed with water to produce a liquid used to remove the excess copper from PC board material. 1/4 lb. will makeup 1 pint of etchant solution. 1 pint will etch approx. 200sq/in of 1 oz. copper single side board. NOTE: Must be mixed/stored/used in glass or plastic containers NO metal!

STOCK #	DESC.	1EA	5+EA
14894-DT	1/4 lb. Etchant	\$5.25	\$4.75

CONTACT EXPOSURE FRAME



For board material up to 9in. X 12in. Metal frame holds your artwork tight against the PC Board during exposure. Includes Metal frame, Glass Front cover, backing board & instructions.

STOCK #	DESC.	1EA	5+EA
14892-DT	ER-10 Exposure Frame	\$28.95	\$23.95

RESIST PENS



Lacquer based black resist ink can be used directly on bare copper boards to touch up breaks, add a trace etc. before etching. Can also be used on clear film artwork (Positives) to correct or add traces before exposing board.

STOCK #	DESC.	1EA	5+EA
14876-DT	Fine Point Pen	\$2.25	\$1.95
14877-DT	Extra Fine Point Pen	\$2.45	\$2.25

"DUST OFF" AEROSOL DUSTER



FALCON Dust-Off™, 12oz. can of duster used to blow dust and dirt off equipment. Includes extension tube for hard to reach spots. Contains difluoroethane, Does not contain CFC's! CANNOT BE SHIPPED AIR

STOCK #	DESC.	1EA	4+EA
16495-CE	DUST-OFF Duster	\$4.95	\$4.00

STAINLESS LOCK BOX



Stainless steel, multi-purpose lock box. Spot welded with carry handle & hasp latch with padlock hole.

STOCK #	DESC.	1EA
17621-BX	Larger Stainless Lock Box	\$12.95

"NESTED" ALUMINUM BOXES



Drawn & Formed aluminum boxes with lids. Small fits into Medium that fits into Large. These are unfinished meaning no paint, and some rough edges.
Small: 7" L X 4" W X 1-3/4" D. Lid > 1/8" larger L & W D: 1/2"
Medium: 8" L X 5" W X 2" D. Lid > 1/8" larger L & W D: 1/2"
Large: 9" L X 6" W X 2-7/16" D. Lid > 1/8" larger L & W D: 9/16"

STOCK #	DESC.	1+SET
16043-BX	Aluminum Nested Boxes	\$12.95

BURNISHING TOOLS



A Quality stylus tool that will give you a better, easier job with dry transfer DIRECT ETCH patterns. For characters, lines & patterns. Back end has 3/8" felt burnisher Standard: patterns .08-.25 Spoon Tip: Patterns .25in. & larger

STOCK #	DESC.	1EA	5+EA
14873-DT	Standard Tool	\$4.95	\$3.95
14874-DT	Spoon Tip Tool	\$5.99	\$5.75

PLASTIC GIFT BOX



Black plastic box with a bow & tassels, epoxy painted on top left corner. Now this has a black gloss "bow" painted on a flat black box? Figured that it was designed to hold "freebies" at some type of ceremony. Great for keeping pencils, pens, crayons, markers, the family jewels, etc. Nothing to beure lid kept internal lip.

STOCK #	DESC.	1EA	10+EA
16174-BX	Plastic Gift Box	\$1.25	\$0.99

SMALL STAINLESS LOCK BOX



Stainless steel mini, multi-purpose lock box. Spot welded with carry handle & hasp latch with padlock hole.

STOCK #	DESC.	1EA
17620-BX	Stainless Lock Box	\$9.95

LONG STAINLESS LOCK BOX



Long, stainless steel, multi-purpose lock box. Spot welded with carry handle & hasp latch with padlock hole.

STOCK #	DESC.	1EA
17622-BX	Stainless Long Box	\$12.95

INSTRUMENT CASE



PACTEC CM59-135, Clamshell design ABS plastic instrument case. Internal posts for holding PC boards up to 8.6" X 5.4". Black shells and endplates. Slightly contoured top & bottom. Includes 4 screws & 4 rubber feet.

STOCK #	DESC.	1EA
17695-BX	PAC-TEK CM59-135 Case	\$8.95

PLASTIC INSTRUMENT CASES



Clamshell design ABS plastic instrument case. Internal posts for holding PC boards. Light gray shells with Dark Gray endplates. Slightly contoured top & bottom. Includes 4 screws.

STOCK #	DIM. (W/L/Hin)	WT.	1EA	10+EA
17195-BX	3.65 x 6.25 x 2.3	.4	\$7.95	\$6.95
17196-BX	6.12 x 7.1 x 2	.62	\$10.95	\$9.95
17197-BX	5.38 x 7.5 x 3.17	.69	\$11.95	\$10.95
17198-BX	7.9 x 11 x 3.15	1.26	\$17.95	\$14.95
17199-BX	3.5 x 2 x 1.3	.1	\$3.95	\$3.59
17200-BX	4.72 x 2.36 x 2	.24	\$5.95	\$4.95
17201-BX	5.9 x 3.15 x 2.4	.37	\$7.95	\$6.95
17202-BX	7.5 x 3.9 x 3.15	.66	\$11.95	\$9.95

STORAGE/ TRANSIT CASE

360° VIEW @MPJA.COM



Molded international Orange, ABS plastic equipment case with handle, latches and hinges. Silicone rubber gasket for water resistance. Foam insert in Top & Bottom.

STOCK #	DESC.	1EA
17810-BX	Small Orange Transit Case	\$17.95

EXTRUDED INST. CASES/ BOARD



Extruded aluminum case with mounting flanges on end plates. Natural Aluminum finish on case and end plates. Slots for PC Board on inside. Grooved outside with smooth end plates. Includes Double Sided FR-4 board with Plated Through .032 holes on .1" spacing. Board For 17804 BX contains 20X57 Holes Board For 17805 BX contains 24X67 Holes Board For 17806 BX contains 32X77 Holes I/D listed below

STOCK #	DESC.	1EA
17804-BX	6in. Extruded Alum. Case/Board	\$9.95
17805-BX	7in. Extruded Alum. Case/Board	\$12.95
17806-BX	8in. Extruded Alum. Case/Board	\$14.95

CLAMSHELL CASES



Clamshell design plastic instrument case. Internal posts and slots for holding PC boards. Off white shells and end plates. Slightly contoured top & bottom. Square front face. O/D listed below

STOCK #	DESC.	1EA
17800-BX	7.5in. Clamshell Case	\$4.95
17801-BX	4.7in. Clamshell Case	\$3.49
17802-BX	5.9in. Clamshell Case	\$4.59
17803-BX	3.9in. Clamshell Case	\$3.39

BLACK/CLEAR FEET



Black rubber or Clear polyurethane stick-on feet. Sold in strip of 4pcs. BLACK Dia: 6mm (.236") H: 3mm (.118") WT: .002 CLEAR Dia: 8.3mm (.32") H: 2.6mm (.1") WT: .005

STOCK #	DESC.	1PK
17552-HD	Black Rubber Feet	\$0.49
17551-HD	Clear Rubber Feet	\$0.49

EQUIPMENT SLIDES



Accuride, 3 section, Zinc plated steel, ball bearing equipment/drawer slides. Front disconnect allows removal of chassis from cabinet. Side mounting. Side Space: 3/8". Closed Position: 20", Fully Extended: 42", Slide Travel: 22", Max Load: 100lbs/pair. Sold as pairs.

STOCK #	DESC.	1+EA
17418-RK	Pair Equipment/Drawer Slides	\$24.95

SEALED PROJECT BOXES

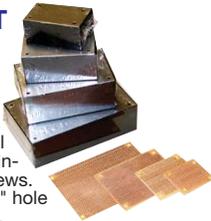


Gray ABS plastic project boxes with lids. Tongue & groove sealing meet IP-65 & NEMA 4 requirements. 4 stand-offs on base for holding PC boards. Includes stainless cover screws & neoprene gasket material. Outside Dimm. Shown.

17390, 391, 17400-17407 NO Internal Guides

STOCK #	DIM. (L/W/Hin)	WT.	1EA
17390-BX	2.52 x 2.28 x 1.38 Box	.13	\$3.95
17391-BX	7.24 x 1.42 x 1.38 Box	.23	\$6.95
17392-BX	4.53 x 3.54 x 2.17 Box	.35	\$6.95
17393-BX	6.73 x 4.76 x 2.17 Box	.54	\$9.95
17394-BX	8.74 x 5.75 x 2.17 Box	.83	\$11.95
17395-BX	6.73 x 4.76 x 3.15 Box	.73	\$10.95
17396-BX	7.68 x 3.15 x 2.17 Box	.49	\$7.95
17397-BX	8.74 x 5.74 x 2.95 Box	.97	\$11.95
17398-BX	10.43 x 7.28 x 3.74 Box	1.5	\$19.95
17399-BX	2.05 x 1.97 x 1.38 Box	.09	\$3.95
17400-BX	3.23 x 3.15 x 2.17 Box	.27	\$5.95
17401-BX	6.3 x 3.15 x 3.35 Box	.53	\$8.95
17402-BX	7.87 x 4.72 x 2.95 Box	.8	\$11.95
17403-BX	4.72 x 4.72 x 3.54 Box	.6	\$9.95
17404-BX	6.3 x 6.3 x 3.54 Box	.85	\$12.95
17405-BX	9.45 x 6.3 x 4.72 Box	1.5	\$19.95
17406-BX	11.81 x 9.06 x 4.37 Box	2.4	\$32.95
17407-BX	14.17 x 7.87 x 5.91 Box	3.1	\$39.95

PLASTIC PROJECT CABINETS & PERF BOARDS



Black plastic project boxes with Aluminum lids. Internal posts for holding PC boards. Includes cover & perf board screws. Solderable Perf. Board has .1" hole grid pattern, copper one side. All Dimm. Approximate.

Large Box: L: 5-1/4" W: 3-1/4" D: 1-9/16" WT: .22
 Large Perf. Board: L: 4-1/4" W: 3-1/8" T: 1/16" WT: .04
 Med Box: L: 4-1/8" W: 2-5/8" D: 1-9/16" WT: .15
 Med Perf. Board: L: 3-1/8" W: 2-1/2" T: 1/16" WT: .02
 Small Box: L: 3-5/16" W: 2-1/8" D: 1-3/8" WT: .11
 Small Perf. Board: L: 2-1/4" W: 1-7/8" T: 1/16" WT: .02
 Mini Box: L: 2-11/16" W: 1-11/16" D: 1-3/16" WT: .08
 Mini Perf. Board: L: 1-3/4" W: 1-1/2" T: 1/16" WT: .007

STOCK #	DESC.	1EA	10+EA
15911-BX	Large Project Box	\$4.95	\$3.25
15912-PB	Large Perf. Board	\$1.75	\$1.10
15913-BX	Medium Project Box	\$3.50	\$2.49
15914-PB	Medium Perf. Board	\$1.10	\$0.75
15915-BX	Small Project Box	\$2.75	\$1.85
16227-PB	Small Perf. Board	\$0.79	\$0.49
15917-BX	Mini Project Box	\$2.50	\$1.69
15918-PB	Mini Perf. Board	\$0.59	\$0.39

PLASTIC PROJECT CABINETS



Black plastic project boxes with lids. Internal guides on ends & sides for holding PC boards. Includes cover screws. Outside Dimm. Shown

15881-BX NO Internal Guides

STOCK #	DIM. (L/W/Hin)	WT.	1EA	10+EA
15518-BX	5 x 2.5 x 1.75 Box	.17	\$2.95	\$2.49
15520-BX	5.3 x 3 x 1.9 Box	.14	\$3.95	\$3.49
15882-BX	5.9 x 3.9 x 2.36 Box	.27	\$3.49	\$2.95
15887-BX	6.3 x 3.74 x 2.44 Box	.33	\$3.95	\$2.95
15883-BX	7.25 x 4.5 x 2.52 Box	.50	\$5.49	\$4.49
15888-BX	7.6 x 4.53 x 2.95 Box	.43	\$7.95	\$6.49
15521-BX	8.8 x 5.5 x 3.6 Box	.75	\$7.95	\$7.25
15522-BX	3 x 2 x 1.16 Box	.07	\$1.95	\$1.59
15885-BX	3.74 x 1.89 x 1.46 Box	.11	\$2.95	\$2.49
15523-BX	4 x 3 x 1.6 Box	.13	\$2.49	\$1.95
15881-BX	4.41 x 2.24 x .87 Box	.08	\$1.95	\$1.59
15886-BX	4.53 x 2.46 x 1.73 Box	.15	\$3.49	\$2.95

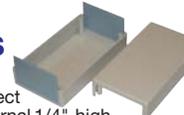
DIE CAST ALUMINUM BOXES



ADC12 Aluminum alloy, Cover & M3.5 Screws included, Natural Bare Aluminum Finish

STOCK #	L"	W"	H"	WT.	1EA
16281-BX	2.36	2.17	1.18	.18	\$3.60
16282-BX	3.15	2.17	0.98	.2	\$3.90
16283-BX	3.50	1.37	1.18	.16	\$3.54
16284-BX	4.49	2.52	1.18	.28	\$5.34
16285-BX	4.49	2.52	2.17	.36	\$6.54
16286-BX	4.49	3.50	2.17	1.30	\$8.01
16287-BX	4.72	3.94	1.38	.56	\$7.77
16288-BX	5.51	3.94	2.95	.86	\$11.22
16289-BX	6.50	5.00	2.95	1.12	\$14.79
16290-BX	6.73	4.76	2.17	.96	\$13.41
16291-BX	6.73	4.76	4.17	1.40	\$16.62
16292-BX	8.74	5.75	2.17	1.44	\$17.91
16293-BX	8.74	5.75	4.17	1.94	\$24.27
16294-BX	9.84	9.84	3.94	3.50	\$44.88
16295-BX	10.83	6.89	2.56	2.08	\$26.91

GRAY & BEIGE PLASTIC CABINETS

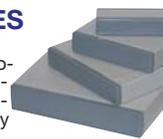


Beige clam shell plastic project boxes with gray end plates. Internal 1/4" high threaded standoffs on both halves for PC boards. Includes cover screws, NO PC board mtg. screws.

L: 7.7" W: 4.3" H: 3" WT: .66
 L: 7.7" W: 4.3" H: 1.4" WT: .45

STOCK #	DESC.	1EA	10+EA
15519-BX	3" Thk. Two Tone Case	\$8.95	\$7.95
15884-BX	1.4" Thk. Two Tone Case	\$8.49	\$6.95

PLASTIC SNAP CASES



2 tone (Light Gray/Gray), snap together small case made from Hi-impact UL-94-HB ABS Plastic. Interlocking Top & Bottom held by snap-on Front & Back.

4 molded standoffs on 17547/48/49
 6 molded standoffs on top & bottom 17550-BX
Stick-on Feet: 8.3mm dia Clear: Order 17551-HD (4pcs.) 6mm dia Black: Order 17552-HD

STOCK #	DIM. (W/D/Hin)	WT.	1EA
17547-BX	4.13 x 1.61 x 0.99 Box	.08	\$2.95
17548-BX	5.12 x 2.99 x 1.18 Box	.17	\$3.75
17549-BX	6.10 x 3.62 x 1.61 Box	.27	\$3.95
17550-BX	7.87 x 4.76 x 1.57 Box	.5	\$4.95

STEEL 19" RACK PANELS



VIDEO MOUNT PRODUCTS

Cold rolled steel drilled & notched for standard rails, Black Powder coat finish

STOCK#	VMP #	HEIGHT	WT.	1EA
17237-RK	ER-1B	1U (1-3/4")	.7	\$4.95
17238-RK	ER-2B	2U (3-1/2")	1.3	\$7.95
17239-RK	ER-4B	4U (7")	2.7	\$13.95
17240-RK	ER-8B	8U(14")	5	\$19.95

LCD MONITOR RACK MOUNT



VIDEO MOUNT PRODUCTS

Rack mount or monitors with 75 & 100mm VESA mounting pattern. Recess mounts 10-17" monitors and can be inverted for up to 23" models, 50lbs. max weight. Black, static resistant Powder Coated steel. Mounting hardware included

STOCK#	VMP#	HT.	WT.	1EA
17245-RK	ER-LCD1017	9U	12	\$66.95

RELAY RACKS



VIDEO MOUNT PRODUCTS

All Aluminum
 Rails Drilled & Tapped 10-32, EIA std. spacing, Available in: Black Powder Coat finish

Shipped unassembled with hardware

STOCK#	COLOR	VMP P/N	HEIGHT	WT.	1EA
17226-RK	Black	ER-72	72	28	\$124.95
17227-RK	Black	ER-84	84	28	\$129.95

19" HEADEND RACKS



VIDEO MOUNT PRODUCTS

Steel Rails Drilled & Tapped 10-32, EIA std. spacing, Black static resistant Powder Coat finish.

Shipped unassembled with hardware

STOCK#	COLOR	VMP P/N	HEIGHT	WT.	1EA
17228-RK	Black	ER-148	48	30	\$89.95
17229-RK	Black	ER-1	71	40	\$99.95
17230-RK	Black	ER-184	84	45	\$125.95

19" HEADEND EXPANSION RAILS



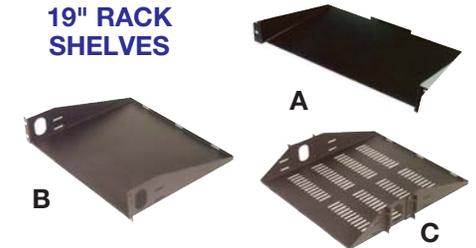
VIDEO MOUNT PRODUCTS

Steel Rails and side stabilizing bars to convert Headend rack to 4 posts. Black static resistant Powder Coat finish.

Shipped unassembled with hardware

STOCK#	COLOR	VMP P/N	HEIGHT	WT.	1EA
17231-RK	Black	ER-1-4PKIT	71	25	\$69.95
17232-RK	Black	ER-184-4PKIT	84	28	\$85.95

19" RACK SHELVES



VIDEO MOUNT PRODUCTS

Black Powder coat finished Steel. Drilled for standard rails. 50lb. MAX Load
 17235 Center mount & Vented

STOCK#	PICT.	VMP#	DEPTH	WT.	1EA
17233-RK	A	ER-S1	12"	5	\$16.95
17234-RK	B	ER-S2U	14-3/4"	7.5	\$29.95
17235-RK	C	ER-S2CM	19	10	\$39.95

CABLE BRACKETS



VIDEO MOUNT PRODUCTS

Black, static resistant Powder Coated steel panels for 19" racks or wall brackets. Large slotted metal rings manage all types of cables. Includes 10 & 12-32 Rack Mount Screws.

STOCK#	VMP#	HT.	WT.	1EA
17241-RK	ER-DRCM1	1U	1.2	\$17.95
17242-RK	ER-DRCM2	2U	2	\$19.95

19" RACK MOUNT CABINETS

Black plastic rack mount clamshell cases. Vented sides with removable front & rear panels. Internal standoffs on top & bottom. Assembly required.



Internal space:
17086-BX 16-3/16" X 7-11/16" X 1"
17087-BX 16-3/16" X 7-11/16" X 2-7/8"
17088-BX 16-3/16" X 7-11/16" X 4-1/2"
W: 19" D: 8"

STOCK#	DESC.	WT.	1EA
17086-BX	1U Rack Cabinet	1.9	\$19.95
17087-BX	2U Rack Cabinet	2.5	\$29.95
17088-BX	3U Rack Cabinet	3.0	\$39.95

19" RACK CABINETS

19in. rack mount cases. Aluminum Face Panel with steel chassis & covers. Satin black textured paint.
17807-BX: W: 19" D: 11.8" H: 1-3/4" WT: 5.8
17808-BX: W: 19" D: 11.9" H: 3-1/2" WT: 7.2



STOCK#	DESC.	WT.	1EA
17811-BX	1U Metal Rack Cabinet		\$34.95
17812-BX	2U Metal Rack Cabinet		\$39.95

RACK SCREWS

Pack of 10-32 Heat Treated Steel Phillips screws 3/4" long with nylon washers for mounting panels in racks



STOCK #	DESC.	WT.	1+EA
17246-RK	50pk 10-32 Rack Screws	.3	\$4.95
17247-RK	100pk 10-32 Rack Screws	.6	\$8.95

WALL PANEL BRACKETS

VIDEO MOUNT PRODUCTS

Hinged Wall brackets used to support & provide easy access to backs of 19" rack panels. Black, static resistant Powder Coated steel. Left or right side swing. 4" depth. Includes 10 & 12-32 Rack Mount Screws.



STOCK#	PICT.	VMP#	HT.	WT.	1EA
17243-RK	A	ER-HWB1	1U	1.5	\$12.95
17244-RK	B	ER-HWB2	2U	2.3	\$16.95

FUEL CELL/SOLAR CAR EXPERIMENT KIT

New 10th. Anniversary edition of the Hi-Tech kit. Features 6 experiments plus construction details & tests using solar cells & a Fuel cell. Use the Solar panel & Fuel cell to convert distilled water to Hydrogen & Oxygen then power the car using the fuel cell. Color 64 page book teaches about how solar cells are made & operate, electrolysis, fuel cell operation, Fuel Cell powered Vehicles, calculating Fuel cell efficiency & power. Includes Digital meter, fuel cell, Motor/Gearbox, Solar panel, leads, hose, axils/wheels & plastic car chassis. Includes Display Stand. Requires 9V Battery for meter, Distilled water and 2 "AA" cells (None included)



FOR 10yrs. AND OLDER. WT: 3.6

STOCK #	DESC.	1EA
18174- KT	Fuel Cell/Solar Car Kit	\$149.95

VINTAGE RADIO KIT

"Radio Ace" kit features 30 experiments and 32pg. book. This kit includes all the parts needed to assemble a 30's era vintage vacuum tube radio. Includes: Pre-wired base/case, Dual Triode tube, Headphones, Tuning coils for AM & Shortwave bands. Requires 8 "AA" cells (not included)



NO SOLDERING REQUIRED
FOR 8yrs. AND OLDER. WT: 3.2

STOCK #	DESC.	1EA
17764-KT	Vintage Radio Kit	\$99.95

PHYSICS PRO KIT

Physics Pro experimenter's kit features: 25 projects & 17 experiments in fluid dynamics. Includes, Tubing, Gears, Wheels, pulleys, struts etc, 213 pieces total. Color 96 page book takes student through air suspension vehicle, water turbine, wind tunnel, crane & more. Parts are compatible with other Physics kits in the series.



FOR 10YRS. AND OLDER. WT: 4.1

STOCK #	DESC.	1EA
17763-KT	Physics Pro Kit	\$99.95

PHYSICS SOLAR WORKSHOP

Physics Solar experimenter's kit features: 12 projects & 32 experiments using Solar powered Motor, Gears, Wheels, pulleys, struts etc, 320 pieces total. Color 64 page book takes student through elevator, bridge, tractor & more. Parts are compatible with other Physics kits in the series. Required 1.5V "AA" Cell (Not Supplied)



FOR 8YRS. AND OLDER. WT: 3.4

STOCK #	DESC.	1EA
17762-KT	Physics Solar Workshop	\$64.95

PHYSICS FOR KIDS

Basic Physics experimenter's kit features 12 basic projects using Wheels, pulleys, struts etc, 102 pieces total. Color 32 page book takes student through building force meters, catapult, dragster, use of pulleys and more. Parts are compatible with other Physics kits in the series.



FOR 8YRS. AND OLDER. WT: 1.4

STOCK #	DESC.	1EA
17761-KT	Physics Discovery Kit	\$29.95

ELECTRONICS WORKSHOP KIT

Basic electronics experimenter's kit with 148 experiments using included Resistors, Diodes, Transistors, LEDs, etc. Color 68 page book teaches the young student by following a future Robotic Technician through training classes & experiments/projects. Plug components into the Base unit to build water sensors, radio, Fuel gauge, Timers, Siren & more. Requires 9V Battery (Not I included)



FOR 10yrs. AND OLDER. WT: 2.8

STOCK #	DESC.	1EA
17760-KT	Electronics Workshop Kit	\$109.95

BUBBLE FACTORY KIT

Experimenter's kit features 35 experiments and 48pg. instruction & reference guide. Learn the history of soap bubbles. Mix the perfect bubble solution, how to preserve bubbles, Geometric bubble construction, Blow giant, mini, bubbles within bubbles and more. Includes 8 oz. of solution, ball hubs & connector rods, bubble ring, cups, funnel and straws.



FOR 8yrs. AND OLDER. WT: 1.5

STOCK #	DESC.	1EA
17555-KT	Bubble Science Kit	\$24.95

CANDY FACTORY KIT

Experimenter's kit features 25 recipes, 13 tools & 48pg. instruction & reference guide. Study the history of candy. Experiment with the art & science of sugar & chocolate candy making. Includes candy thermometer, spatula, Dipping fork, Flower & Diamond shape cutters, plastic molds & more. Utilizes common kitchen utensils & ingredients available from most grocery stores.



FOR 10yrs. AND OLDER with ADULT SUPERVISION. WT: 1.3

STOCK #	DESC.	1EA
17508-KT	Candy Science Kit	\$42.95

FUEL CELL CAR EXPERIMENT KIT

Lower price & complexity version of our Hi-Tech experimenter's kit. Features: experiments for younger children using a Fuel cell. Use battery pack & Fuel cell to convert distilled water into Hydrogen & Oxygen then power the car using the H/O fuel cell. Color 16pg. book focuses more on building fuel cell car. Includes: Proton Exchange fuel cell, Motor/Gearbox, leads, hose, axils & wheels & plastic car chassis. Requires 2 "AA" Batteries for electrolysis & Distilled water (Neither included)

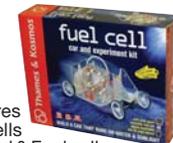


FOR 10yrs. AND OLDER. WT: 2.3

STOCK #	DESC.	1EA
17268- KT	Fuel Cell Car Experiment Kit	\$99.95

FUEL CELL/SOLAR CAR EXPERIMENT KIT

Hi-Tech experimenter's kit features 30 experiments using solar cells and a Fuel cell. Use the Solar panel & Fuel cell to convert distilled water into Hydrogen & Oxygen then power the car using the H/O fuel cell. Color 96 page book teaches about how solar cells are made & operate, electrolysis, fuel cell operation, calculating Solar & Fuel cell efficiency & power. Includes Digital multimeter, Proton Exchange fuel cell, Motor/Gearbox, Solar panel, leads, hose, axils & wheels & plastic car chassis. Requires 9V Battery for meter & Distilled water (Neither included)



FOR 12yrs. AND OLDER. WT: 3.3

STOCK #	DESC.	1EA
17034 KT	Fuel Cell/Solar Car Kit	\$149.95

POWER HOUSE SCIENCE KIT

An introduction to regenerative energy & basic Physical Science. 96pg. book takes through 20 projects and 70 experiments in energy from Solar, Wind, & chemical sources. Learn about storing, transforming & use of energy. Includes Styro "House", Solar cells, motor and more. Requires 2 "AA" Rechargeable Batteries, Tea Candles, Seeds & household tools & supplies (Not included)



FOR 12yrs. AND OLDER. WT: 5.1

STOCK #	DESC.	1EA
17035- KT	Power House Kit	\$149.95

PERFUME SCIENCE KIT

Experimenter's kit designed for the girls. Features 16 recipes, 17 ingredients and 48pg. book. Study the biology of the skin, read about the history of beauty products, learn the composition of cosmetics, mix personalized cosmetics and experiment with healthy beauty recipes. Includes shower gel, lotion, and cream, lip gloss bases, measuring cups, stirrers, lables, makeup colors and more.



FOR 8yrs. AND OLDER. WT: 2.3

STOCK #	DESC.	1EA
17031-KT	Perfume Science Kit	\$64.95

MICROCONTROLLER SCIENCE KIT

Features 100 experiments and 144pg. book. This kit introduces microcontrollers, sensors and programming through 100 experiments. Construct a circuit, then write a program, download it to the microcontroller via the IR interface, then monitor & upload the data to your computer. Requires: PC, Windows 98/2K/XP. 64MB RAM min, 5MB HDD space, CDROM, available Serial (COM) or USB port. Includes experiments with light, humidity, temperature sensors, timers, voltmeter and much more.



NO SOLDERING REQUIRED
FOR 12yrs. AND OLDER. WT: 3.5

STOCK #	DESC.	1EA
17036-KT	Microcontroller Kit	\$149.95

"DELI" COUNTER KIT

DO IT YOURSELF "Deli" Counter kit. Kit contains a 0-99 Up counter board/display assembly, power supply and a pushbutton Switch. Just about any momentary type contact will operate the counter.

You supply a case, solder and labor to solder the power supply & switch to the attached leads. 2-3/4" tall super brite Red LED make up the digits. Each contact closer causes counter to increase 1 count. There is no reset function, and unit will remember last count for a couple days so to get to "00" you must complete the count.

Display: W: 5" H: 4-3/16"
Driver: W: 4-5/16" H: 2" WT: .5

STOCK #	DESC.	1EA	5+EA
17511-KT	"Deli" Counter Kit	\$10.95	

INFRARED ANALYZER KIT

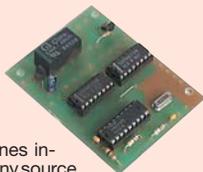


Kit uses Motorola's MC3373 Remote control amp/detector. This kit allows you to display & analyze code patterns from any infrared device. Software allows you to save to disc, compare current display with one stored on disc, & print screen. 2 second sampling is displayed and you can "zoom" in on any 8 millisecond portion. The on screen trace can be saved in ASCII comma-delimited format for import into spreadsheets. Kit connects to your computers parallel port and the software runs on any P.C. compatible 386 or later machine with VGA graphics & DOS 3.3 or higher. TIR-1

L: 2-7/8" W: 1-1/2" H: 3/4" WT: .3

STOCK #	DESC.	1EA	5+EA
8837-RB	I/R AnalyzerKit	\$89.95	\$79.95

"SWEET 16" DTMF DECODER KIT



This kit decodes all DTMF tones including 0-9, #, *, A-D. Can use any source for the DTMF tone, such as phone line, scanner, etc. You use a jumper to connect 1 of 16 outputs to drive the internal relay. When selected digit is detected the relay is energized. By adding additional external relays you can control up to 16 different devices. Relay is energized as long as tone is detected. By adding external flip-flops or delay circuits you obtain "toggle" or time out actions. Ideal building block for more complicated circuits. Turn on your AC unit from your office. Use your cell phone to activate an outside light. Internal relay is rated DPDT 1A max @ 12VDC/115VAC resistive; so if a heavy or high power load is expected you should use the internal relay to control a heavier external relay. Operates on 7.5-18VDC (9V battery) TT-16

L: 2-7/8" W: 2-1/8" H: 5/8" WT: .15

STOCK #	DESC.	1EA	5+EA
8838-RB	DTMF Sweet-16 Kit	\$34.95	\$29.95

SUPER BIG-EAR AMPLIFIER KIT



Super sensitive amplifier kit can hear through walls etc. Couple to a parabolic reflector & earphones to hear for blocks. Based on the LM386 ChipCan be used as a general purpose 1.5W amp. Supplied with a mini-microphone. Runs on 6-12V DC. AA-1D

L: 1-3/4" W: 1" H: 3/8" WT: .2

STOCK #	DESC.	1EA	5+EA
3378-RB	Big Ear Kit	\$10.95	\$9.95

SNAP TOGETHER ELECTRONIC FUNDAMENTALS PROJECT KITS

FUN & EDUCATIONAL

"Snapcircuits" For adults or children wanting to learn the fundamentals of electronics while doing basic, working projects. Parts simply "snap" together. Interlocking, stacking parts such as resistors, diodes, switches, motors, capacitors, interconnects on plastic pieces. Plastic base supports the parts. Build simple electronic "Doorbell", Siren, logic circuits etc. No knowledge of electronics is needed. Simple color drawings in workbook take you through the setup. Ideal for children science classes and demos. Additional/replacement parts available from Mfg. Requires 4 "AA" batteries (not supplied). NOT for children under 3, Recommended age 8+



KIT 14264-KT contains 30+ pieces and simple experiments 1-101

WT: 2

STOCK #	DESC.	1EA
14264-KT	Snapcircuits Jr. Project Kit	\$29.95



KIT 14263 contains 60+ pieces, Including parts not available in 14264-KT, Experiments 1-101 & 102-305.

WT: 3.3

STOCK #	DESC.	1EA
14263-KT	Snapcircuits Deluxe Project Kit	\$49.95

LIGHT CONTROLLED RELAY KITS



Learn how to control loads using light by building light dependant relay circuits. 3 different methods are detailed, each with unique advantages & drawbacks.

Kit #1: Basic Light Controlled Relay Based on a LDR (Light Dependant Resistor) & darlington transistors to drive SPDT 10A relay. Adjustable sensitivity.
Kit #2: Light Controlled Relay Uses a LDR & an Op-Amp. Drives SPDT 10A relay. Less effected by supply & temp. Adj. sensitivity.
Kit #3: Advanced Light Controlled Relay Uses a LDR & transistors to drive a SPDT 10A relay. Least effected by supply & temp. Adj. sensitivity.

WT: .25

STOCK #	DESC.	1EA
6179-KT	Light Control Relays	\$18.95

DUAL PROBE DIGITAL THERMOMETER KIT

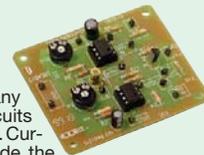


Kit uses a 3-1/2 digit LCD Digital Panel Meter & a pair of National LM34 temperature sensors to construct an accurate thermometer with .1° resolution & +-1-1/2° accuracy from -20° to +199.9° "F". The TO-92 size sensors can be remotely located. Uses flat 4 conductor "phone" type cable to connect sensors so their's no stiff cable or wires. Switch controls power & which sensor is read. Ideal for monitoring inside vs outside temperature, Photographic chem baths, equipment temperatures in cabinet. Requires 9V battery. LCD-T1
Pre drilled box with cutout available separately.

Mtr: L: 1-1/2" W: 1-1/8" H: 1/2" WT: .17
Bx: L: 3" W: 2-1/2" H: 1-5/8" WT: .13

STOCK #	DESC.	1EA	5+EA
8835-RB	Digital Thermo. Kit	\$34.95	\$29.95
8836-RB	Pre drilled Plastic Box	\$9.95	\$8.95

ELECTRONIC TIMER KIT



Dual mode timer kit has many uses. Dual LM 555 timing circuits plus a relay driver (100mA Max. Current Sink). In the astable mode the circuit produces a continuous train of pulses; in the mono stable mode produces a triggered time delay useful for debouncing switches. Can be cascaded for compound applications. Operates from 4.5-12V DC. EBTD-9

L: 2-13/16" W: 2-1/4" H: 5/8" WT: .15

STOCK #	DESC.	1EA	5+EA
16916-RB	555 Timer Kit	\$12.95	\$11.95

DC MOTOR SPEED CONTROL KIT

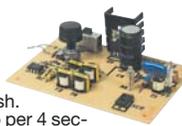


12V DC motor or lamp control kit. Will control any 12V DC load up to 5A. uses pulse width mod. to give 5% to 98% control range. Kit contains all parts and a 12 V DC demo motor. Ideal for DC tools, science fair projects.

L: 3" W: 2-3/8" H: 1-3/4" WT: .63

STOCK #	DESC.	1EA	5+EA
16925-KT	DC Speed Control Kit	\$15.95	\$14.95

VARIABLE STROBE KIT



Kit has all parts, (except hardware) to build a repetitive flash. Variable from 1 flash/second to per 4 seconds. 4.5-6 or 12 VDC input. Ideal for special effects.

L: 3-5/8" W: 2" H: 1-1/4" WT: 1

STOCK #	DESC.	1EA	5+EA
1142-KT	Xenon Flash Kit	\$9.00	\$8.49
2941-LA	Spare Flash Tube	\$1.50	\$1.39

BATTERY MONITOR KIT



Voltage monitor kit monitors voltages using 7 LEDs (2 red, 2 yellow, 3green). Change resistors to select voltage ranges and indicated steps: 5V or 8V in 1/4V steps or 12V in 1/4, 1/2 or 1V steps. All parts included. VM-1

L: 2-3/4" W: 1-7/16" H: 3/8" WT: .2

STOCK #	DESC.	1EA	5+EA
4210-RB	Battery Monitor Kit	\$7.95	\$6.95

TEMPERATURE CONTROLLER KIT



Circuit output is open collector transistor that sinks up to 80mA to operate external relay (NOT SUPPLIED). Holds relay closed until temperature rises to adjustable set point. Range Approx. -20 to +300°F. 7.5-15V DC Operation. TG-2D

L: 2" W: 1-5/16" H: 1/2" WT: .2

STOCK #	DESC.	1EA	5+EA
5289-RB	Tem. Control Kit	\$7.75	\$6.95

WATER DETECTOR KIT



555 Osc. circuit drives speaker (INCLUDED) to sound alarm when water level rises on remote sensor board and changes the conductivity between the 2 contacts. 6-12V DC Operation. Main Board .8" X .75" Sensor board 1.25" sq. WD2

WT: .4

STOCK #	DESC.	1EA	5+EA
5292-RB	Water Detector Kit	\$9.95	\$8.95



12V PANEL LAMPS

Panel lamps with Non replaceable bulb rated 12V. Tapered square top (.6"sq. X .5" tall). Solder terminals. Mounts in round hole

Mtg. Hole: .6" L: 1-1/2" WT: .016

STOCK #	DESC.	1EA	10+EA
7117-LA	Red Panel Lamp	\$0.95	\$0.79
7118-LA	Yellow Panel Lamp	\$0.95	\$0.79
7119-LA	Green Panel Lamp	\$0.95	\$0.79
14183-LA	Blue Panel Lamp	\$0.95	\$0.79
14184-LA	Clear Panel Lamp	\$0.95	\$0.79

12V G-4 BI-PIN LED LAMPS

Bi-pin bulb replacement assembly features: 14 super brite LEDs, 12VAC or DC operation, 55deg. beam angle. Replacement for most G-4 lamps. .9mm dia. X 8mm Steel Pins, plastic body.



Dia.: 22.5mm T: 11mm WT: .009

STOCK #	DESC.	1EA	10+EA
17352-OP	Red LED Bi-Pin Lamp	\$8.95	\$6.95
17353-OP	Yellow LED Bi-Pin Lamp	\$8.95	\$6.95
17354-OP	Green LED Bi-Pin Lamp	\$8.95	\$6.95
17355-OP	Blue LED Bi-Pin Lamp	\$8.95	\$6.95
17356-OP	White LED Bi-Pin Lamp	\$8.95	\$6.95

HALOGEN YARD BULB

MR-16



Pre packaged, Halogen bulbs designed for Landscape fixtures. Operate from 12VAC power source. 35W Type MR16 (Bi-pin/Reflector bulb)

STOCK #	DESC.	WT.	1EA
15803-LA	35W MR16 Lamp	0.08	\$4.95

MINI LAMPS



Grain-of-Wheat® lamps, Only 1/8" dia X 1/4". 10" leads. Ideal for hobbyists! Use in model cars, boats, trains etc..

L: 1/4" Dia: 1/8" WT: .001

STOCK #	DESC.	1EA	10+EA
8980-LA	1.5V Mini Lamp	\$0.59	\$0.49
8981-LA	3.0V Mini Lamp	\$0.59	\$0.49
8982-LA	6.0V Mini Lamp	\$0.59	\$0.49
8983-LA	12V Mini Lamp	\$0.59	\$0.49

12V HIGH INTENSITY LIGHT



USED, Plastic case with a GE #789 or eq. 12V @ 1.2A bi-pin lamp, mirror reflector, power switch, and compound lens. 5.5mm X 2.5mm Coaxial jack on back. Light dia. approx. 5" @ 12in. /10" @ 24in.

H: 4-3/4" W: 2-3/8" D: 2-7/8" WT: .6

STOCK #	DESC.	1EA	10+EA
16304-LA	12V Hi-Intensity Light	\$7.95	\$6.95

FRONT SURFACE MIRROR

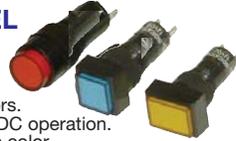


Front surface mirror made by OCLI for laser photo printers or copiers. Minimum reflectivity greater than 85%. 10mm thick plate glass for durability. NOTE: Shipped with protective Film on front surface. Remove before use.

L: 12-1/2" W: 1-15/16" T: 3/8" Shp WT: 1

STOCK #	DESC.	1EA
17156-MI	Front Surface Mirror	\$4.50

LED12VDC PANEL INDICATORS



Panel mount LED indicators. Internal resistor for 3-12VDC operation. Internal LED matches lens color. Solder terminals Lens Dimm. shown, O/A size 2mm larger Mtg Hole: 8/10/12mm L: 1-3/8" WT: .005

Round

STOCK #	DESC.	1EA	10+EA
17301-LE	8mm Red Indicator	\$0.79	\$0.69
17302-LE	8mm Blue Indicator	\$0.79	\$0.69
17303-LE	8mm Green Indicator	\$0.79	\$0.69
17304-LE	8mm Amber Indicator	\$0.79	\$0.69
16961-LE	10mm Red Indicator	\$0.89	\$0.79
16962-LE	10mm Blue Indicator	\$0.89	\$0.79
16963-LE	10mm Green Indicator	\$0.89	\$0.79
16964-LE	10mm Amber Indicator	\$0.89	\$0.79
16981-LE	12mm Red Indicator	\$0.99	\$0.89
16982-LE	12mm Blue Indicator	\$0.99	\$0.89
16983-LE	12mm Green Indicator	\$0.99	\$0.89
16984-LE	12mm Amber Indicator	\$0.99	\$0.89

Square

STOCK #	DESC.	1EA	10+EA
17305-LE	8mm Sq. Red Indicator	\$0.79	\$0.69
17306-LE	8mm Sq. Blue Indicator	\$0.79	\$0.69
17307-LE	8mm Sq. Green Indicator	\$0.79	\$0.69
17308-LE	8mm Sq. Amber Indicator	\$0.79	\$0.69
16965-LE	10mm Sq. Red Indicator	\$0.89	\$0.79
16966-LE	10mm Sq. Blue Indicator	\$0.89	\$0.79
16967-LE	10mm Sq. Green Indicator	\$0.89	\$0.79
16968-LE	10mm Sq. Amber Indicator	\$0.89	\$0.79
16985-LE	12mm Sq. Red Indicator	\$0.99	\$0.89
16986-LE	12mm Sq. Blue Indicator	\$0.99	\$0.89
16987-LE	12mm Sq. Green Indicator	\$0.99	\$0.89
16988-LE	12mm Sq. Amber Indicator	\$0.99	\$0.89

Rectanglar

STOCK #	DESC.	1EA	10+EA
17309-LE	8x11 Rect. Red Indicator	\$0.79	\$0.69
17310-LE	8x11 Rect. Blue Indicator	\$0.79	\$0.69
17311-LE	8x11 Rect. Green Indicator	\$0.79	\$0.69
17312-LE	8x11 Rect. Amber Indicator	\$0.69	\$0.69
16969-LE	10x14 Rect. Red Indicator	\$0.89	\$0.79
16970-LE	10x14 Rect. Blue Indicator	\$0.89	\$0.79
16971-LE	10x14 Rect. Green Indicator	\$0.89	\$0.79
16972-LE	10x14 Rect. Amber Indicator	\$0.89	\$0.79
16989-LE	12x16 Rect. Red Indicator	\$0.99	\$0.89
16990-LE	12x16 Rect. Blue Indicator	\$0.99	\$0.89
16991-LE	12x16 Rect. Green Indicator	\$0.99	\$0.89
16992-LE	12x16 Rect. Amber Indicator	\$0.99	\$0.89

FRONT SURFACE MIRROR



Because of their low distortion; front surface mirrors are used for laser scanners and other optical equipment. Made of 1/8" flat plate glass. May have some slight imperfections. REMOVE "PINK" PROTECTIVE COATING OVER FRONT SURFACE BEFORE USE

L: 4-1/2" W: 1-1/8" T: 1/8" WT: .55

STOCK #	DESC.	1EA	100+EA
15173-MI	Front Surface Mirror	\$1.50	\$0.99

GLASS PRISM



Equilateral optical quality clear glass prism. Ideal for classroom use, science projects optical experimentnts

L: 50mm W: 50mm H: 45mm WT: .4

STOCK #	DESC.	1EA
17933-LN	Equilateral Glass Prism	\$7.95

LASER POINTER



Stylish pen style LASER pointer contains visible red laser diode, lens & 2 AAA batteries in metal case. <4mW class III-A output power. Momentary push button switch for easy use. Visibility exceeds 300ft. when used with projection/display screens.

Dia: .45" L: 5.7" WT: .3

STOCK #	DESC.	1EA	5+EA
8689-LZ	LASER Pointer	\$12.95	\$11.95

NEON BULB



Standard Neon Lamp, Max. current:1mA; Min. Firing Voltage: 60VAC. 6mm long Solid Wire Leads.

Dia: 4.9mm L: 12mm (Body) WT: .014

STOCK #	DESC.	1EA
18105-LA	Mini Neon Lamp	\$0.29

MINI E/L STRIP



Removed from new equipment. 3-1/8" X 1-1/8" O/A 2-7/8" X 1" active area Electro-luminescent strip. Requires approx. 90V @ 400 hz. 1/4" wire leads.

WT: .01

STOCK #	DESC.	1EA	10+EA
12662-LA	RFE E/L Strip	\$2.25	\$2.25

30 LED WORKLIGHT



Rechargeable round style worklight with 30 super bright white LEDs. Approx. 3hr. run time on full charge. Plastic hook on top for hanging. Push button switch on base. Includes UL listed AC charger pac L: 11-1/4" WT: 1.3

STOCK #	DESC.	1EA
16743-TL	30 LED Rechargeable Worklight	\$24.95

FIBER OPTIC ILLUMINATOR



Assembly contains a 12V/75W MR16 lamp, lamp socket, aluminum "block" with a fiber optic edge illuminator, and associated mounting hardware. Used to scan objects up to 4in wide. 5in. lamp socket leads.

L: 7-1/4" O/A W: 4-5/8" O/A T: 2-3/4" O/A WT: 1.5

STOCK #	DESC.	1EA
16300-MI	Edge Illuminator	\$19.95

FRONT SURFACE MIRROR



Large low distortion; front surface mirrors are used for laser scanners and other optical equipment. Made of 1/8" flat plate glass. May have some slight imperfections. NO PROTECTIVE FILM HANDLE CAREFULLY

L: 6-11/16" W: 5-1/8" T: 1/8" WT: .4

STOCK #	DESC.	1EA
17945-MI	Large Front Surface Mirror	\$4.95

COPIER LENS



40mm lens assembly with plastic barrel & glass elements. We think that were used in color copy machines?? Focal length approximately 8in. Internal red filter for correcting for incandescent lamp ??

L: 2-3/8" DIA: 2-3/16" WT: .5

STOCK #	DESC.	1EA	10+EA
14428-LN	40mm Lens Assembly	\$4.95	\$3.95

NEW FANS

THERMOCOOL AC FANS



UL/TUV/CE
RoHS Compliant

STOCK#	FIG.	MFG.	P/N	DIMN.	VOLTS/AMP	CFM	NOISE	BEARING	CONNECT	APPROVAL	WT	1EA	12+EA
17771-FN	A	THERMOCOOL	G8025HAS	3-1/8 SQ X 1	125AC/.13	23	30	SLV.	WIRE	uULc/TUV/CE	.6	\$9.95	\$8.95
17772-FN	B	THERMOCOOL	G8038HAS	3-1/8 SQ X 1-1/2	125AC/.14	28	33	SLV.	WIRE	uULc/TUV/CE	.6	\$14.95	\$12.95
17773-FN	C	THERMOCOOL	G9225HAS	3-5/8 SQ X 1	125AC/.14	34	40	SLV.	TERMINALS	uULc/TUV/CE	.5	\$9.95	\$8.95
17774-FN	D	THERMOCOOL	G12025HAS	4-11/16 SQ X 1	125AC/.20	66	42	SLV.	TERMINALS	uULc/TUV/CE	.75	\$9.95	\$8.95
17775-FN	E	THERMOCOOL	G12038HAS	4-11/16 SQ X 1-1/2	125AC/.28	95	48	SLV.	TERMINALS	uULc/TUV/CE	1.1	\$12.95	\$10.95
17776-FN	E	THERMOCOOL	G12038MAB	4-11/16 SQ X 1-1/2	125AC/.22	85	44	BALL	TERMINALS	uULc/TUV/CE	1	\$15.95	\$12.95
17777-FN	E	THERMOCOOL	G12038MAS	4-11/16 SQ X 1-1/2	125AC/.22	85	44	SLV.	TERMINALS	uULc/TUV/CE	1.1	\$11.95	\$9.95
17778-FN	F	THERMOCOOL	G13538HAS	5-5/16 SQ X 1-1/2	125AC/.34	122	53	SLV	WIRE	uULc/TUV/CE	1.2	\$14.95	\$12.95
17779-FN	G	THERMOCOOL	G15050HAS	6 SQ X 2	125AC/.40	198	58	SLV	WIRE	uULc/TUV/CE	1.9	\$22.95	\$19.95
17780-FN	H	THERMOCOOL	G17050HASB	6-3/4 RND X 2	125AC/.40	198	59	BALL	TERMINALS	uULc/TUV/CE	1.8	\$22.95	\$19.95
17781-FN	I	THERMOCOOL	G17050HAST	6-3/4 X 6 X 2	125AC/.40	198	59	BALL	TERMINALS	uULc/TUV/CE	1.9	\$22.95	\$19.95



MISC. DC FANS

PICTURES ARE REPRESENTATIVE OF THE STYLE AND ARE NOT EXACT

VISIT WWW.MPJA.COM, ENTER STOCK # TO SEE ACTUAL PICTURE

STOCK#	FIG.	MFG.	P/N	DIMN.	VOLTS/AMP	CFM	NOISE	BEARING	CONNECT	APPROVAL	WT	1EA	12+EA
18043-FN	D	COMAIR	ST05B3	3-1/8" SQ X 1-1/4"	5DC/.58	34	41	HYD	9" LEADS	UL/CSA	.42	\$5.95	----
15357-FN	C	ADDA	ADD4050HB-G70	1-9/16" SQ X 3/8"	5DC/.19	6.7	25	BALL	11" LEADS	ULCAN/us/ TUV	.04	\$2.95	\$2.49
16732-FN	B	SANYO	109P0412H612	1-5/8" X 1"	12DC/.11	8	33	BALL	6" LEADS	UL/CSA/VDE	.2	\$1.95	\$1.75
16719-FN	B	SUNON	KDE1204PKVXMS.M	1-9/16" X 3/4"	12DC/.13	10.8	27.5	VAPO	5" LEADS	ULCAN/us/ TUV	.07	\$2.95	\$2.50
12773-FN	A	T&T	MW-510H12C	2" SQ X 3/8"	12DC/.14	9	27	BALL	10" LEADS	UL/TUV/CE	.05	\$1.65	\$1.49
17526-FN	C	JAMICON	JF0625S1L	2-3/8" SQ X 1	12DC/.17	17	28	SLV	4" LEADS	ULCAN/TUV	.13	\$2.95	\$2.50
17992-FN	C	ADDA	AD0612LB-A70GL	2-3/8" SQ X 1	12DC/.08	13	18	BALL	7" LEADS	UL/CSA/TUV/CE	.12	\$1.95	\$1.75
17937-FN	M	NIDEC	GAMMA27/A35236-57	2-3/8" SQ X 1"	12DC/.24	-4	40	BALL	10" LEADS	ULCAN/us/ TUV	.11	\$5.95	----
17411-FN	D	SUNON	KDE1207PHV1A	2-3/4" X 5/8"	12DC/.2	27	32	MAGLEV	3" LEADS	ULCAN/us/VDE /CE	.11	\$2.50	\$1.95
15841-FN	D	JAPAN SERVO	PUDC12Z4-042	3-1/8" X 1"	12DC/.16	42	37	BALL	14" LEADS	UL/CSA/TUV	.2	\$3.95	\$3.49
15717-FN	D	AROMAT	AIF80	3-1/8" SQ X 1"	12DC/.07	-	-	BALL	8" LEADS	UL/CSA	.23	\$2.95	\$2.49
16157-FN	D	DELTA	AFB0812HHD-R00	3-1/8" SQ X 3/4"	12DC/.26	40	-	BALL	8" LEADS	UL/CSA/VDE/CE	.16	\$3.95	\$2.95
16724-FN	D	COOLTRON	FD8025S12W3-17	3-1/8" SQ X 1"	12DC/.083	25.6	22	SLV	10" LEADS	ULCAN/us/ TUV	.15	\$1.49	----
18099-FN	D	NIDEC	TA350DC-M34789-16	3-5/8" SQ X 1-1/2"	12DC/1	110	51	BALL	4" LEADS	UL/CSA	.39	\$5.95	----
18088-FN	D	DELTA	FFB0912VHE-R00	3-5/8" SQ X 1-1/2"	12DC/.75	85	47.5	BALL	11" LEADS	UL/CSA/VDE/CE	.42	\$3.95	----
16543-FN	D	AVC	C9025S12H	3-5/8" SQ X 1"	12DC/.3	52	34	SLV	6" LEADS	UL/CSA/TUV/CE	.16	\$3.95	\$3.50
17194-FN	C	SANYO	109P0624HE7K3	2-3/8" SQ X 5/8"	24DC/.06	13.5/6.8	-	BALL	4" LEADS	-	.13	\$3.95	\$3.75
15718-FN	J	JAPAN SERVO	CBDC24K4-601	5" SQ X 1"	24DC/.55	30	-	BALL	5" LEADS	-	.66	\$4.95	\$4.49(5)
18016-FN	J	DELTA	BBF1224HE	4-11/16" SQ X 1-3/8"	24DC/.5	23	46	BALL	9" LEADS	UL/CSA/VDE/CE	1	\$4.95	----

FANS

Visit www.mpja.com for our Complete Products Lines.

24.5 VDC VARIABLE SPEED 3-1/8" FAN



MFG: JAPAN SERVO
P/N: DC PIXIE25 (PUDC24K4-607)
Voltage: 24.5 VDC
Current: 110mA
CFM: Variable: Approx. Max 42/26 Min
 Speed control input varies output. Plastic blades & housing. 35db noise. Ball bearing. . 3" leads. Connect Blue lead to Black for Full speed. Connect Blue to Black through a resistor 0-1K ohm to adjust speed.

Sq: 3-1/8"	T: 1"	WT: .2
STOCK #	DESC.	1EA
17608-FN	24.5V Pixie 3-1/8" Fan	\$2.95

3-1/8" 12V FAN



MFG: COOLTRON
P/N: FD8025S12W3-17
VOLTAGE: 12VDC
CURRENT: .083A
CFM: 25.6
 Plastic blades & housing. 22dB noise. Sleeve bearings. 10" leads. UL/canada/usa/TUV listed.

Sq: 3-1/8"	T: 1"	WT: .15	
STOCK #	DESC.	1EA	12+EA
16724-FN	12VDC 3-1/8" Fan	\$1.95	\$1.75

12VDC 4-11/16" FAN



MFG: DELTA
P/N: WFB1212H
VOLTAGE: 12VDC
CURRENT: .45A
CFM: 86
 Removed from New Equipment. Plastic blades & housing. 37.6dB noise. Ball bearing. 5" leads. UL/CSA/VDE/CE listed.

Sq: 4-11/16"	T: 1"	WT: .41
STOCK #	DESC.	1EA
17345-FN	12VDC 4-11/16" Delta Fan	\$4.95

LAPTOP FAN



MFG: SUNON
P/N: GB0545AFV1-8
VOLTS: 5VDC
Current: .07A
CFM: 2.2
 Laptop mini blower with plastic impeller & metal housing. Tach. output lead (4Pulse/revolution) 29 db noise. Vapo bearing . 1.5" leads. UL/canada/usa/TUV listed.

SQ: 1-3/4 (45mm)"	T: 3/8" (9mm)	WT: .05	
STOCK #	DESC.	1EA	12+EA
17866-FN	Sunon Laptop Blower	\$4.95	\$3.95

4-11/16" 12V COMPAQ SERVER FAN



MFG: NIDEC FOR COMPAQ
MODEL: TA450DC
P/N: C33211-71A
Compaq: 122394-006
Voltage: 12VDC
Current: .49A
CFM: NA
 Replacement fan used in Proliant 3000 servers. Plastic blades & housing. Thermistor controlled Variable speed fan with stall sensor out. UL/CSA/CE listed. 15" leads with 5 pin Compaq connector.

Sq: 4-11/16"	T: 1-1/2"	WT: .7
STOCK #	DESC.	1EA
16718-FN	4-11/16" Compaq Fan	\$4.95

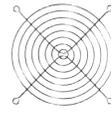
12VDC 3-1/8" FAN



MFG: JAPAN SERVO
P/N: DC PIXIE25 (PUDC12Z4-042)
Voltage: 12 VDC
Current: 160mA
CFM: 42
 Plastic blades & housing. 37db noise. Ball bearing. UL/CSA/TUV listed. 14" leads.

Sq: 3-1/8"	T: 1"	WT: .2	
STOCK #	DESC.	1EA	12+EA
15841-FN	12V Pixie 3-1/8" Fan	\$3.95	\$3.49

FAN GUARD



Fits 4-11/16" Sq. fans.
 Chrome Metal, 4 screw, Flat mounting.

WT: .1			
STOCK #	DESC.	1EA	10+EA
16721-FN	4-11/16" Flat Fan Guard	\$0.99	\$0.89

CPU FAN POWER ADAPTOR



Use to remove 3 pin CPU fan connector from motherboard and connect it direct to your power supply. Standard large 4 pin drive M/Fconnectors to mini fan plug.

L: 2"tap / 6" Fan	WT: .02		
STOCK #	DESC.	1EA	5+EA
12834-CB	CPU Fan Adapt. Cable	\$2.49	\$1.95

FAN CORD FOR 3 FANS



18/2 ZIP Fan cord designed to plug onto most fans with .100in quick connect/solder terminals. Three 90 Deg. angled molded fan plugs separated by 7-1/2 in. of cord. 8in. of pig tail to 1st. fan.

L: 24"	WT: .06	
STOCK #	DESC.	1EA
18057-FN	24" 90 Deg. 3X Fan cord	\$2.95

12VDC FAN



MFG: JAPAN SERVO
P/N: SCNDM12B4
VOLTAGE: 12VDC
CURRENT: .5A
CFM: 106
 Unique Square/Round fan. Square side is same size & mounting as a Std. 4.7" (120mm) fan, Other side is 5" (128mm) Dia. Plastic blades & housing. 40dB noise. Ball bearing. 9" leads. UL/CSA/TUV listed.

SQ: 4-11/16"/5" Dia.	T: 1-1/2"	WT: .6
STOCK #	DESC.	1EA
18015-FN	12VDC Japan Servo Fan	\$5.95

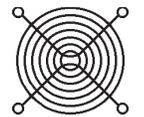
12VDC COMPUTER BLOWER



MFG: AVC
P/N: F9733B12LT
Input: 12VDC
Current: .72A
CFM: 20 (Variable)
Specifications/Features:
 Ball bearing blower With Plastic body & blades. 41db noise. 4 leaded fan: 2 Power, 1 for stall sense & 1 for changing speed (Lo/Hi). 10in. leads to 4 Pin header connector.

L: 4-1/8"	W: 4"	T: 1-1/2"	WT: .5
STOCK #	DESC.	1EA	
16720-FN	12VDC Computer Blower	\$9.95	

FAN GUARD



Fits 2-3/8" (2.359") Sq. Mini fans,
 Black metal Offset mounting

WT: .08			
STOCK #	DESC.	1EA	10+EA
8660-FN	2-3/8" Fan Guard	\$1.25	\$0.99

12" ANGLED FAN CORD



18/2 ZIP Fan cord designed to plug onto most fans with .100in quick connect/solder terminals. 45 Deg. angled molded fan plug on one end.

L: 12"	WT: .03		
STOCK #	DESC.	1EA	12+EA
17180-FN	12" 45Deg. Fan cord	\$0.89	\$0.79

12" STRAIGHT FAN CORD



18/2 ZIP Fan cord designed to plug onto most fans with .100in quick connect/solder terminals. Straight molded fan plug on one end.

L: 12"	WT: .03		
STOCK #	DESC.	1EA	12+EA
17178-FN	12" Straight Fan cord	\$0.89	\$0.79



A



B

USED FANS

PICTURES ARE REPRESENTATIVE OF THE STYLE AND ARE NOT EXACT

VISIT WWW.MPJA.COM, ENTER STOCK # TO SEE ACTUAL PICTURE



C

STOCK#	FIG.	MFG.	P/N	DIMN.	VOLTS/AMP	CFM	NOISE	BEARING	CONNECT	APPROVAL	WT	1EA	12+EA
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USED AC FANS

16149-FN	A	ROTRON	PT2B3	6.75 RND X 2	115AC	235	54	BALL	TERMINALS	NA	2	\$18.95	\$16.49
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USED DC FANS

17345-FN	B	DELTA	WFB1212H	4-11/16" SQ X 1"	12DC/.45	86	37.5	BALL	5" LEADS	UL/CSA/VDE/CE	.17	\$4.95	----
14595-FN	C	EBM	W1G180-AA01-25	7.9 RND X 2.8	24DC/1.5	377	59	BALL	6" LEADS	UL/CSA	3.8	\$12.95	\$9.95
18061-FN	B	EBM	KD1208PTS1-6	3-1/8" SQ X 1"	24DC/.19	41	34	SLV.	9" LEADS	UL/TUV	.24	\$1.49	----

12V BATTERY SWITCH

AMP Rating listed are NON-SWITCHING SPST-NO Heavy Duty 12VDC battery cut-off switch with removable actuator "key" for security & safety. EXTRA "KEY" available



WT: .3

STOCK #	DESC.	AMP	1EA	5+EA
8373-SW	Battery Switch	500	\$12.95	\$11.75
17285-SW	Battery Switch	100	\$10.95	\$10.25
15433-SW	Extra "Key"		\$1.95	----

MICRO RIGHT ANGLE PUSH BUTTON SWITCH

Right angle PC mount, SPDT-NO micro push button switch with black plastic actuator. Contacts rated .4VA.



Mounting: P.C. Board WT: .001

STOCK #	DESC.	1EA	25+EA
12505-SW	Rt. Ang. P/B Switch	\$0.75	\$0.69

8 INPUT ALARMING SWITCHER



Rugged metal cabinet. Lighted power switch, LED source Indicator. 3 sequencing modes; Auto, Manual, Home. 3 alarm modes: ON: Internal buzzer sounds, video switches to associated input, Alarm relay activates; BUZZER OFF: No buzzer sound, video switches to associated input, alarm relay activates; OFF: no alarm functions. Alarm overrides all sequence modes CE Listed

Impedance: 75 ohm
Isolation in-out: >40dB @ 10MHz
Crosstalk: <-48dB @ 10MHz
Bandwidth: <1Hz to >20MHz -3dB
Tilt: <1%
Phase: better than 3° to 10MHz
Video Gain: Unity
Connections: Video: BNC, Alarm In/Out: Terminal strips
Switching Interval: 1-15 Seconds
Alarm Hold Interval: 3-50 Seconds
Alarm Relay: SPDT Rated 5A @ 250VAC
Power: 120VAC 3 Watts

W: 8-5/8" H: 1-7/8" D: 4-1/2" WT: 2.1

STOCK #	DESC.	1EA	5+EA
15270-ST8	Input Switcher/Alarm	\$139.95	\$132.95

SPST PUSH BUTTON SWITCH

Keyboard/Keypad, SPST-NO push button switch with white .25in. Sq. plastic actuator. PC terminals, can be face plate mounted in .578in. Sq. hole. Contacts rated .1VA. H: 11/16" Body W: 5/8" L: 43/64"



Mounting: P.C. Board /Face Plate WT: .005

STOCK #	DESC.	1EA	100+EA
18018-SW	Keypad P/B Switch	\$0.29	\$0.25

DPDT PUSH BUTTON SWITCH

Right angle PC mount, DPDT Alternate action (Push On/Push Off) push button switch with black .25in. Dia. plastic actuator. Contacts rated .4VA.



Pin Spacing: .125" Row Spacing .087" Mounting: P.C. Board L: 1-1/8" O/A WT: .005

STOCK #	DESC.	1EA	100+EA
18017-SW	Rt. Ang. P/B Switch	\$0.29	\$0.25

TIMER MODULE

Mr. Coffee clock/timer module. 115VAC input. Buttons to set clock/Brew start time, SPST relay connected between "LINE" and "HTR" (heater) Terminal by a wire lead. Relay contacts rated 10A @ 120VAC/30VDC. 4 digit Red LED display. Timer turns on relay, auto turn off after approx. 2hr. (not adjustable). "ON", "OFF", "AUTO" function switch. "ON" energizes relay "OFF" turns off relay "AUTO" Turns on relay at the pre-set time. .25" quick connect terminals.



H: 2-1/2" W: 2-1/4" D: 2-3/8" WT: .3

STOCK #	DESC.	1EA
16742-MI	Digital Coffee Timer	\$3.99

SPST PUSH BUTTON SWITCH

MEC, SPST-NO super small PC board mount switch used as a Limit or sense switches in VCRs, Tape players, etc. 1/8" black plastic push button. Rated: < 10gm activation force, .2VA @ 24V DC.



L: 5/16" W: 3/8" T: 1/8" WT: .001

STOCK #	DESC.	1EA	5+EA
15567-SW	MEC P/B Switch	\$0.25	\$0.20

LEVER/ROLLER SNAP SWITCH

SPDT Lever/roller switch. Contacts rated: .1A @ 125VAC/30VDC. 1" lever requires 10gm force. .187" quick connect terminals. 2 hole mounting. UL/CSA Listed.



L: 1-3/16"(body) W: 5/8" T: 3/8" WT: .016

STOCK #	DESC.	1EA	10EA
18085-SW	Roller Micro Switch	\$0.99	\$0.89

MINI KEY SWITCH

MFG: SIEMENS PN: V42266-C4499-A162 Mini SPST Key Switch Rated: .1VA@125VAC. 6 Dimple lock with 2 plated brass keys. 90deg. Index, key removable in both positions. ALL KEYED ALIKE. P.C Board mounting. Includes 2 keys.



SQ: 19mm HT: 19mm (Ex Pins) WT: .04

STOCK #	DESC.	1EA
18071-SW	Mini Key Switch	\$3.95

DELUXE COAX A/B/C SWITCH

A/B/C Push Button switch, 75 Ohm inputs/output with "F" female connectors.



WT: .4

STOCK #	DESC.	1EA	5+EA
5282-TV	Deluxe A/B/C Switch	\$11.95	\$8.95

OPTICAL SWITCH

3 way bi-directional optical switch with 3.5mm optical in/outputs. Select from 3 different audio sources, or receivers. Includes TOSLINK to 3.5mm optical adapters.



WT: .23

STOCK #	DESC.	1EA
15189-FO	Fiber Optic Switch	\$4.99

DELUXE COAX A/B SWITCH

A/B Push Button switch, 75 Ohm inputs/output with "F" female connectors.



WT: .4

STOCK #	DESC.	1EA	5+EA
7018-TV	Deluxe A/B Switch	\$5.95	\$4.95

PROXIMITY SENSOR



MFG: PEPPERL & FUCHS P/N: NBB%-F33-A0 Power: 10-30DC Output: NPN Transistors: 1-N.O. 1-N.C. 200mA Max. Load

Sense Range: 5mm Industrial, Inductive sensor for process control. 6ft. 4 wire cable with stripped end. Plastic flat rectangular case with 2 mtg. holes. Short circuit & Rev. polarity protected.

L: 2" W: 1" T: 13/32" WT: .24

STOCK #	DESC.	1EA
17637-SW	Pepperl Sensor	\$19.95

LARGE P/B GAME SWITCHES



Lighted, large plastic body, panel mount SPDT push button switches. Mount in a 15/16" hole. 1/4" quick connect terminals. Switch Contacts: 5A @ 250 VAC. Replaceable wedge base Lamp: rated 12V @ 3W, L: 2-1/2" WT: .065

STOCK #	DESC.	1EA	20+EA
17051-SW	Green Game Switch	\$2.95	\$2.49
17052-SW	White Game Switch	\$2.95	\$2.49
17053-SW	Yellow Game Switch	\$2.95	\$2.49
17054-SW	Red Game Switch	\$2.95	\$2.49

MECHANICAL TIMER SWITCH



Robertshaw 10min. timer. SPST contacts rated 20A Resistive, 1/3hp @ 120/240VAC. Contacts close when you turn the shaft, times out from what you set. (Min. approx. 1min). 1/4" Dia. double flat, split shaft 11/16" long. Back of panel mounts with two 4-40threaded inserts. .250" quick connect terminals.

Dia: 2-1/4" D: 1-1/2" (Exc. Shaft) WT: .12

STOCK #	DESC.	1EA	10EA
17953-SW	10 Minute Timer	\$2.95	\$2.49

CIRCUIT BREAKER/SWITCH



AIRPAX B11-2-2.00A-06-11L, circuit breaker/switch rated: 250VAC, 50/60 Hz; 50VDC; Carry 2A Trip 2.7A. Magnetic type with 5/8" white handle. Mounts in 1/2" "D" hole. .250" Quick connect terminals. UL/CSA listed.

H: 1-3/8" W: 11/16" D: 1-1/2" (Behind Panel) WT: .1

STOCK #	DESC.	1EA
4174-CB	Circuit Breaker/Switch	\$3.00

OPTICAL SENSOR TRANSMITTER



Banner SM31EQD, self contained, DC operated, modulated IR transmitter usually sold with a receiver but we don't have any more receivers. Max separation = 10ft. Transmitter is 10-30VDC powered. Epoxy case meets NEMA standards 1,2,3,3S,4,4X,12,13. Requires 4 pin Quick connect connectors (Not supplied). UL/CSA listed. TRANSMITTER ONLY.

WT: .2

STOCK #	DESC.	1EA	5+EA
14561-OP	Banner Transmitter	\$9.95	\$8.49

UL MINI TOGGLE SWITCH

UL Listed Mini toggle switch, Mounts in a 1/4" hole with Solder tabs. Rated 5 Amps @ 125VAC.



WT: .02

STOCK #	STYLE	DESC.	1EA	100+EA
5006-SW	SPDT	On-None-On	\$0.35	\$0.27
16071-SW	SPDT	On-None-(Mom)	\$0.58	\$0.44
5010-SW	SPDT	On-Off-On	\$0.38	\$0.29
5009-SW	SPDT	(Mom)-Off-(Mom)	\$0.58	\$0.44
16072-SW	SPDT	On-Off-(Mom)	\$0.58	\$0.44
5011-SW	DPDT	On-None-On	\$0.41	\$0.30
16073-SW	DPDT	On-None-(Mom)	\$0.69	\$0.52
5014-SW	DPDT	On-Off-On	\$0.46	\$0.35
16074-SW	DPDT	On-Off-(Mom)	\$0.69	\$0.52
5016-SW	DPDT	(Mom)-Off-(Mom)	\$0.69	\$0.52

MINI TOGGLE SWITCH

Mini toggle switch, Mounts in a 1/4" hole with Solder tabs. Rated 5 Amps @ 125VAC.



WT: .02

STOCK #	STYLE	DESC.	1EA	100+EA
5005-SW	SPST	On-None-Off	\$0.75	\$0.66
16075-SW	3PDT	ON-None-On	\$0.74	\$0.55
16076-SW	3PDT	ON-Off-On	\$0.88	\$0.66
16077-SW	4PDT	ON-None-On	\$1.42	\$1.07
16078-SW	4PDT	ON-Off-On	\$1.75	\$1.31

UL SUB-MINI TOGGLE SWITCH

UL Listed Sub-Mini toggle switch, Mounts in a 1/8" hole with Solder tabs. Rated 1 Amp @ 250VAC.



WT: .02

STOCK #	STYLE	DESC.	1EA	200+EA
16110-SW	SPST	On-Off	\$0.45	\$0.35
16111-SW	SPDT	On-None-On	\$0.49	\$0.39
16112-SW	SPDT	On-Off-On	\$0.59	\$0.49

SUB-MINI TOGGLE SWITCH

Sub-Mini toggle switch, Mounts in a 1/8" hole with Solder tabs. Rated 3 Amps @ 125VAC.



WT: .02

STOCK #	STYLE	DESC.	1EA	100+EA
12213-SW	SPST	On-Off	\$0.75	\$0.60
5017-SW	SPDT	On-None-On	\$0.43	\$0.32
12214-SW	SPDT	On-Off-On	\$0.54	\$0.40
5018-SW	DPDT	On-None-On	\$0.52	\$0.39
12215-SW	DPDT	On-Off-On	\$0.72	\$0.54

THOUSANDS
more Items on www.mpja.com

12V LIGHTED TOGGLE SWITCHES

SPST, 12VDC lighted standard sized toggle switches, Mounts in a 1/2in. hole with Solder tabs. Rated 10 Amps @ 12VDC. Lamp is internally connected between the load contact (ACC) & "Ground" terminal
Terminal "+" = +12V in
Terminal "ACC" = Load
Terminal "Gnd" = - 12V (common)



L: 3-1/8" Dia: 1-5/16" WT: .02

STOCK #	DESC.	1EA	10+EA
7125-SW	Red Lighted Toggle	\$1.95	\$1.54
7126-SW	Yellow Lighted Toggle	\$1.95	\$1.54
7127-SW	Green Lighted Toggle	\$1.95	\$1.54

FULL SIZE 15A TOGGLE SWITCH

Standard toggle switches, Mounts in a 1/2" hole. Rated: 10 Amps @ 250VAC. 15A @125VAC. Screw terminals.



WT: .03

STOCK #	STYLE	DESC.	1EA	100+EA
16081-SW	SPDT	On-None-On	\$0.88	\$0.66
16082-SW	SPDT	On-Off-On	\$0.95	\$0.71
16083-SW	SPDT	On-None-(Mom)	\$1.05	\$0.79
16084-SW	SPDT	On-Off-(Mom)	\$1.05	\$0.79
16085-SW	SPDT	(Mom)-Off-(Mom)	\$1.05	\$0.79
16086-SW	DPDT	On-None-On	\$1.24	\$0.93
16087-SW	DPDT	On-Off-On	\$1.24	\$0.93
16088-SW	DPDT	On-None-(Mom)	\$1.49	\$1.12
16089-SW	DPDT	On-Off-(Mom)	\$1.49	\$1.12
16090-SW	DPDT	(Mom)-Off-(Mom)	\$1.49	\$1.12

HEAVY DUTY 20A TOGGLE SWITCHES

Standard toggle switches, Mounts in a 1/2" hole. Rated: 15 Amps @ 250VAC. 20A @125VAC. Screw terminals.



WT: .03

STOCK #	STYLE	DESC.	1EA	100+EA
12216-SW	SPST	On-None-Off	\$0.95	\$0.89
12217-SW	SPDT	On-None-On	\$1.15	\$0.90
12218-SW	SPDT	On-Off-On	\$1.50	\$1.22
12219-SW	DPST	On-None-Off	\$1.10	\$0.94
12220-SW	DPDT	On-None-On	\$1.80	\$1.44
12221-SW	DPDT	On-Off-On	\$1.95	\$1.56

FULL TOGGLE WATERPROOF BOOT

Molded rubber toggle boot with molded in nut. For full sized toggle switches 16081-16090 & 12216-12221



WT: .009

Thread: M12X0.75

STOCK #	DESC.	1EA	10EA
16312-SW	Full Toggle Boot	\$2.49	\$2.25

MINI TOGGLE WATERPROOF BOOT

Molded rubber toggle boot with molded in nut & "O" ring panel seal for mini toggle switches.



WT: .005

WILL NOT FIT 5009/5016 Switches.
Thread: M6X0.75

STOCK #	DESC.	1EA	10EA
16311-SW	Mini Toggle Boot	\$1.95	\$1.75

LEVER/ROLLER SNAP SWITCH

SPDT Lever/roller switch. Contacts rated: 5A @ 250VAC 1" lever requires 35gm force. .187" quick connect terminals. 2 hole mounting. CE Listed.
L: 1-1/8" (body) W: 5/8" T: 3/8"



WT: .015

STOCK #	DESC.	1EA	50EA
16315-SW	Roller Micro Switch	\$1.25	\$0.99

MINI SNAP SWITCH WITH ROLLER

SPDT micro switch with roller. Contacts rated 3A @ 125/250VAC. 55gm actuation force. Solder terminals. 2 mtg. holes. 3/4" lever.



WT: .005

L: 3/4" (body) W: 3/8" T: 1/4"

STOCK #	DESC.	1EA	10EA
16317-SW	Mini Snap Switch	\$0.89	\$0.79

PUSH BUTTON SWITCH



Mini push button switch, Momentary, Mounts in a 1/4" hole with Solder tabs. Rated 3 Amps @ 125VAC.

WT: .01

STOCK #	STYLE	DESC.	1EA	100+EA
5019-SW	SPST	Normally Open Red	\$0.29	\$0.26
5020-SW	SPST	Normally Closed Blk	\$0.29	\$0.26



FULL SIZE TOGGLE SAFETY COVERS

Plastic, Snap action safety covers for standard (1/2" Dia.) sized toggle switches. Cover must be opened to activate switch. Closing cover forces switch to original position.

WT: .02

STOCK #	DESC.	1EA	10+EA
16100-SW	Red Safety Cover	\$0.53	\$0.46
16101-SW	Green Safety Cover	\$0.53	\$0.46
16102-SW	Blue Safety Cover	\$0.53	\$0.46
16103-SW	Yellow Safety Cover	\$0.53	\$0.46
16104-SW	Purple Safety Cover	\$0.53	\$0.46
16105-SW	Black Safety Cover	\$0.53	\$0.46
16106-SW	Clear Safety Cover	\$0.53	\$0.46
16107-SW	Chrome Safety Cover	\$0.53	\$0.46

MISC. TOGGLE SWITCHES



5001-SW 5004-SW 12223-SW

Full size toggle switch, Mounts in a 1/2" hole. Amps Ratings are @ 125VAC.

WT: .07

STOCK #	STYLE	DESC.	AMP	1EA	100+EA
5001-SW	SPST	On-None-Off	6	\$1.25	\$1.00
5004-SW	DPDT	On-Off-On	10	\$1.95	\$1.75
12223-SW	SPST	On-None-Off	10	\$1.25	\$0.96

STANDARD TOGGLE SWITCHES



Standard toggle switch, Mounts in a 1/2" hole with Solder tabs. Ratings are @ 125VAC.

WT: .03

STOCK #	STYLE	DESC.	AMP	1EA	100+EA
5002-SW	SPST	On-None-Off	4	\$0.75	\$0.65

LARGE PUSHBUTTON SWITCH



SPST-Normally open, Full size, metal body, Pushbutton switch, Mounts in a 3/4" hole. Rated 2A @ 250VAC/4A @ 125VAC. Screw Terminals.

Dia: 7/8" Mtg.: 3/4" hole WT: .05

STOCK #	DESC.	1EA	10+EA
16093-SW	Push Button Switch	\$2.02	\$1.77

SNAP SWITCH



SPST-NO Cherry switch. Contacts rated: 15A @ 125/250VAC. Button requires approx. 250gm force. solder terminals. 2 hole mounting. UL/us/canada Listed.

L: 1-1/16"(body) W: 5/8" T: 3/8" WT: .011

STOCK #	DESC.	1EA	10EA
18084-SW	Cherry Snap Switch	\$0.99	\$0.79

BLACK HEATSHRINK TUBING



Polyolefin
Listed dia. before shrinking, 2X min shrink ratio.
Rated 125deg. "C", 600V. UL/CSA Listed.
Available in 4ft lengths or 100ft. Rolls
L: 4ft.

STOCK #	DESC.	WT.	1PC
16325-HS	3/64 Black Shrink	.004	\$0.49
16326-HS	1/16 Black Shrink	.007	\$0.59
16327-HS	3/32 Black Shrink	.009	\$0.69
16328-HS	1/8 Black Shrink	.011	\$0.75
16329-HS	1/4 Black Shrink	.022	\$0.95
16330-HS	3/8 Black Shrink	.033	\$1.10
16331-HS	1/2 Black Shrink	.047	\$1.25
16332-HS	3/4 Black Shrink	.09	\$1.99
16333-HS	1 Black Shrink	.15	\$2.29

HEATSHRINK ROLLS



L: 100ft. Rolls

STOCK #	DESC.	WT.	1ROLL
16334-HS	3/64 Black Shrink	.34	\$5.95
16335-HS	1/16 Black Shrink	.4	\$5.95
16336-HS	3/32 Black Shrink	.42	\$5.95
16337-HS	1/8 Black Shrink	.5	\$6.69
16338-HS	1/4 Black Shrink	.74	\$8.83
16339-HS	3/8 Black Shrink	1.1	\$10.66
16340-HS	1/2 Black Shrink	1.4	\$12.96
16341-HS	3/4 Black Shrink	2.6	\$24.95
16342-HS	1 Black Shrink	3.6	\$48.17

COLOR HEATSHRINK ASSORTMENT



154 pc. of 4in. Shrink tubing in assorted colors. Flexible polyolefin rated for 135 deg. "C"
Listed dia. before shrinking,
1/16" 56pcs. 3/32" 35pcs.
1/8" 28pcs. 3/16" 18pcs.
1/4" 9pcs. 3/8" 8pcs.
Includes hinged plastic box with latches

WT: .4

STOCK #	DESC.	1EA	12+EA
16481-HS	Color Shrink Kit	\$12.95	\$10.95

BLACK HEATSHRINK ASSORTMENT



154 pc. of 4in. Shrink tubing. Flexible polyolefin rated for 135 deg. "C". Listed dia. before shrinking,
1/16" 56pcs. 3/32" 35pcs.
1/8" 28pcs. 3/16" 18pcs.
1/4" 9pcs. 3/8" 8pcs.
Includes hinged plastic box with latches

WT: .4

STOCK #	DESC.	1EA	12+EA
16482-HS	Black Shrink Kit	\$12.95	\$10.95

HEATSHRINK MARKER ASSORTMENT



360 pc. of 1/2in. long Shrink tubing. 300 black + 60 un-numbered Colored pcs.
Flexible black polyolefin rated for 135 deg. "C". Listed dia. before shrinking,
Numbered 0-9. In the following tubing sizes
1/8" 3/16"
1/4" 3/8"
1/2"

Includes hinged plastic box.

WT: .4

STOCK #	DESC.	1EA	12+EA
16483-HS	Heatshrink Marker Kit	\$12.95	\$10.95

COLOR HEATSHRINK TUBING



Polyolefin (Clear-CYG-KYNAR)
Listed dia. before shrinking, 2X min shrink ratio.
Rated 125deg. "C", 600V.
Available in 4ft lengths Only
UL/CSA Listed

RED HEATSHRINK

L: 4ft.

STOCK #	DESC.	WT.	1PC
16601-HS	3/64 Red Shrink	.004	\$0.49
16602-HS	1/16 Red Shrink	.007	\$0.59
16603-HS	3/32 Red Shrink	.009	\$0.69
16604-HS	1/8 Red Shrink	.011	\$0.75
16605-HS	1/4 Red Shrink	.022	\$0.95
16606-HS	3/8 Red Shrink	.033	\$1.10
16607-HS	1/2 Red Shrink	.047	\$1.25
16608-HS	3/4 Red Shrink	.09	\$1.99
16609-HS	1 Red Shrink	.15	\$2.29

BLUE HEATSHRINK

L: 4ft.

STOCK #	DESC.	WT.	1PC
16611-HS	3/64 Blue Shrink	.004	\$0.49
16612-HS	1/16 Blue Shrink	.007	\$0.59
16613-HS	3/32 Blue Shrink	.009	\$0.69
16614-HS	1/8 Blue Shrink	.011	\$0.75
16615-HS	1/4 Blue Shrink	.022	\$0.95
16616-HS	3/8 Blue Shrink	.033	\$1.10
16617-HS	1/2 Blue Shrink	.047	\$1.25
16618-HS	3/4 Blue Shrink	.09	\$1.99
16619-HS	1 Blue Shrink	.15	\$2.29

YELLOW HEATSHRINK

L: 4ft.

STOCK #	DESC.	WT.	1PC
16621-HS	3/64 Yellow Shrink	.004	\$0.49
16622-HS	1/16 Yellow Shrink	.007	\$0.59
16623-HS	3/32 Yellow Shrink	.009	\$0.69
16624-HS	1/8 Yellow Shrink	.011	\$0.75
16625-HS	1/4 Yellow Shrink	.022	\$0.95
16626-HS	3/8 Yellow Shrink	.033	\$1.10
16627-HS	1/2 Yellow Shrink	.047	\$1.25
16628-HS	3/4 Yellow Shrink	.09	\$1.99
16629-HS	1 Yellow Shrink	.15	\$2.29

CLEAR HEATSHRINK

CYG-KYNAR

L: 4ft.

STOCK #	DESC.	WT.	1PC
16631-HS	3/64 Clear Shrink	.004	\$0.49
16632-HS	1/16 Clear Shrink	.007	\$0.59
16633-HS	3/32 Clear Shrink	.009	\$0.69
16634-HS	1/8 Clear Shrink	.011	\$0.75
16635-HS	1/4 Clear Shrink	.022	\$0.95
16636-HS	3/8 Clear Shrink	.033	\$1.10
16637-HS	1/2 Clear Shrink	.047	\$1.25
16638-HS	3/4 Clear Shrink	.09	\$1.99
16639-HS	1 Clear Shrink	.15	\$2.29

GREEN HEATSHRINK

L: 4ft.

STOCK #	DESC.	WT.	1PC
16641-HS	3/64 Green Shrink	.004	\$0.49
16642-HS	1/16 Green Shrink	.007	\$0.59
16643-HS	3/32 Green Shrink	.009	\$0.69
16644-HS	1/8 Green Shrink	.011	\$0.75
16645-HS	1/4 Green Shrink	.022	\$0.95
16646-HS	3/8 Green Shrink	.033	\$1.10
16647-HS	1/2 Green Shrink	.047	\$1.25
16648-HS	3/4 Green Shrink	.09	\$1.99
16649-HS	1 Green Shrink	.15	\$2.29

WHITE HEATSHRINK

L: 4ft.

STOCK #	DESC.	WT.	1PC
16651-HS	3/64 White Shrink	.004	\$0.49
16652-HS	1/16 White Shrink	.007	\$0.59
16653-HS	3/32 White Shrink	.009	\$0.69
16654-HS	1/8 White Shrink	.011	\$0.75
16655-HS	1/4 White Shrink	.022	\$0.95
16656-HS	3/8 White Shrink	.033	\$1.10
16657-HS	1/2 White Shrink	.047	\$1.25
16658-HS	3/4 White Shrink	.09	\$1.99
16659-HS	1 White Shrink	.15	\$2.29

VIOLET HEATSHRINK

L: 4ft.

STOCK #	DESC.	WT.	1PC
16661-HS	3/64 Violet Shrink	.004	\$0.49
16662-HS	1/16 Violet Shrink	.007	\$0.59
16663-HS	3/32 Violet Shrink	.009	\$0.69
16664-HS	1/8 Violet Shrink	.011	\$0.75
16665-HS	1/4 Violet Shrink	.022	\$0.95
16666-HS	3/8 Violet Shrink	.033	\$1.10
16667-HS	1/2 Violet Shrink	.047	\$1.25
16668-HS	3/4 Violet Shrink	.09	\$1.99
16669-HS	1 Violet Shrink	.15	\$2.29

DUAL WALL HEATSHRINK



4ft. long black, adhesive lined shrink tubing.
Flexible polyolefin rated for 135 deg. "C"
Listed dia. before shrinking,

L: 4ft.

STOCK #	DESC.	WT.	1PC
16674-HS	1/8 Dual Wall Shrink	.015	\$2.95
16673-HS	3/16 Dual Wall Shrink	.017	\$3.95
16675-HS	1/4 Dual Wall Shrink	.025	\$4.95
16676-HS	3/8 Dual Wall Shrink	.041	\$6.95
16677-HS	1/2 Dual Wall Shrink	.055	\$7.95
16678-HS	3/4 Dual Wall Shrink	.12	\$9.95
16679-HS	1 Dual Wall Shrink	.2	\$12.95

DUAL WALL HEATSHRINK ASSORTMENT



37 pc. of 4in. long black, adhesive lined shrink tubing.
Flexible polyolefin rated for 135 deg. "C"
Listed dia. before shrinking,
1/8" 12pcs. 1/4" 10pcs.
3/8" 6pcs. 1/2" 4pcs.
3/4" 3pcs. 1" 2pcs.
Includes hinged plastic box with latches

WT: .52

STOCK #	DESC.	1EA	12+EA
16484-HS	Dual Wall Shrink Kit	\$16.95	\$14.95

6" BLACK HEATSHRINK ASSORTMENT



24 pc. of 6in. long Black Shrink tubing in assorted Dia. Flexible polyolefin rated for 125 deg. "C"/600V. Listed dia. before shrinking. 4 pcs. each of following sizes: 3/32", 1/8", 3/16", 1/4", 3/8" & 1/2"

L: 6" WT: .2

STOCK #	DESC.	1EA
16830-HS	Black 6" long Shrink Bagged	\$3.95

6" COLOR 1/8" HEATSHRINK ASSORTMENT



10 pc. of 6in. long X 1/8" Dia. Shrink tubing in assorted colors. Flexible polyolefin rated for 125 deg. "C"/600V

Black 2pcs.	Blue 1pc.	Yellow 1pc.
Clear 2pcs.	Green 1pc.	
Red 2pcs.	White 1pc.	

L: 6" WT: .2

STOCK #	DESC.	1EA
16831-HS	Color 1/8" Shrink Bagged	\$2.25

6" COLOR 3/16" HEATSHRINK ASSORTMENT



10 pc. of 6in. long X 3/16" Dia. Shrink tubing in assorted colors. Flexible polyolefin rated for 125 deg. "C"/600V

Black 2pcs.	Blue 1pc.	Yellow 1pc.
Clear 2pcs.	Green 1pc.	
Red 2pcs.	White 1pc.	

L: 6" WT: .2

STOCK #	DESC.	1EA
16832-HS	Color 3/16" Shrink Bagged	\$2.50

6" COLOR 1/4" HEATSHRINK ASSORTMENT



10 pc. of 6in. long X 1/4" Dia. Shrink tubing in assorted colors. Flexible polyolefin rated for 125 deg. "C"/600V

Black 2pcs.	Blue 1pc.	Yellow 1pc.
Clear 2pcs.	Green 1pc.	
Red 2pcs.	White 1pc.	

L: 6" WT: .2

STOCK #	DESC.	1EA
16833-HS	Color 1/4" Shrink Bagged	\$2.75

6" COLOR 3/8" HEATSHRINK ASSORTMENT



10 pc. of 6in. long X 3/8" Dia. Shrink tubing in assorted colors. Flexible polyolefin rated for 125 deg. "C"/600V

Black 2pcs.	Blue 1pc.	Yellow 1pc.
Clear 2pcs.	Green 1pc.	
Red 2pcs.	White 1pc.	

L: 6" WT: .2

STOCK #	DESC.	1EA
16834-HS	Color 3/8" Shrink Bagged	\$2.95

**BE SURE TO CHECK
WWW.MPJA.COM
FOR NEW ITEMS & SPECIALS**

2-1/2" BLACK HEATSHRINK ASSORTMENT



158 pc. of 2-1/2in. Black Shrink tubing in assorted colors. Flexible polyolefin rated for 125 deg. "C"/600V. Listed dia. before shrinking.

1/16" 60pcs.	1/8" 40pcs.
3/16" 20pcs.	1/4" 18pcs.
3/8" 10pcs.	1/2" 10pcs.

Includes hinged plastic box with latches

L: 2-1/2" WT: .2

STOCK #	DESC.	1EA
16835-HS	2-1/2" Black Shrink Kit	\$10.95

2-1/2" RED HEATSHRINK ASSORTMENT



158 pc. of 2-1/2in. Red Shrink tubing in assorted colors. Flexible polyolefin rated for 125 deg. "C"/600V. Listed dia. before shrinking.

1/16" 60pcs.	1/8" 40pcs.
3/16" 20pcs.	1/4" 18pcs.
3/8" 10pcs.	1/2" 10pcs.

Includes hinged plastic box with latches

L: 2-1/2" WT: .4

STOCK #	DESC.	1EA
16836-HS	2-1/2" Red Shrink Kit	\$10.95

4" HEATSHRINK ASSORTMENT



160 pc. of 4in. long shrink tubing. Includes Black, Blue, Clear, Green, Red, White & Yellow colors. Flexible polyolefin rated for 125 deg. "C"/600V. Listed dia. before shrinking.

1/16" 60pcs.	3/32 35pcs.
1/8" 25pcs.	3/16" 20pcs.
1/4" 10pcs.	3/8" 10pcs.

Includes hinged plastic box with latches

L: 4" WT: .4

STOCK #	DESC.	1EA
16843-HS	4" Assort. Color Shrink Kit	\$11.95

WIRING ACCESSORY KIT



Each set contains:

- 1ea. pocket flat blade screwdriver/AC/DC neon voltage checker 100-250V
- Flexible 4in. long polyolefin shrink tubing rated for 135 deg. "C"
- 8pcs. ea. 1/16" clear & black
- 8pcs. ea. 3/32" clear & black
- 6pcs. ea. 1/8" clear & black
- 4pcs. ea. 3/16" clear & black
- 2pcs. ea. 1/4" clear & black
- 2pcs. ea. 3/8" clear & black
- 20pcs. ea 3in. black & natural wire ties
- 10pcs. ea 7in. black & natural wire ties
- 4pcs. ea 1/8in. black & natural cable clamps
- 2pcs. ea 1/4n. black & natural cable clamps
- 2pcs. ea 5/16in. black & natural cable clamps
- 2pcs. ea 7/16in. black & natural cable clamps
- 1pc. ea 1/2in. black & natural cable clamp
- 1pc. ea 5/8in. black & natural cable clamp
- 20ea. assort. rubber grommits
- 40+pcs. ea 2.5mm X 10mm black & silver screws
- 40+pcs. ea 3.5mm X 12mm black & silver screws

Includes hinged plastic box with latch. WT: .8

STOCK #	DESC.	1EA	12+EA
16845-HD	Wiring Assesory Kit	\$16.95	\$14.95

SPLASHPROOF FUSE BLOCK



Heavy duty Type ANE (ANL) splashproof fuse block. Fuse & Wire clamp screws are 24K Gold plated. Holds single ANE/ANL fuse. Accepts up to 1/0 AWG cable, Clear housing with silver plastic end covers. 4 screw mounting.

L: 7-1/2" W: 2-1/8" H: 1-1/2" WT: .9

STOCK #	DESC.	1EA	5+EA
15526-FH	Splashproof ANE Holder	\$8.99	\$8.25

HEAVY DUTY FUSE BLOCK



Heavy duty Type ANE (ANL) fuse block. All metal parts are 24K Gold plated. Holds single ANE/ANL fuse up to 500A. Accepts up to 1AWG cable, Set screw clamp, clear snap on cover.

L: 4" W: 1-7/8" H: 1-1/2" WT: .2

STOCK #	DESC.	1EA	5+EA
14948-FH	ANE Fuse Holder	\$10.95	\$9.95

2 POSITION FUSE BLOCK



Distribution block for Type AUE (AGU) fuses. All metal parts are 24K Gold plated. Holds 2 AUE (AGU) fuses up to 80A each. One 3 way #4 AWG input, Two 8AWG output. Inner steps to allow insulation into block. Set screw clamps, clear housing.

L: 4" W: 1-7/8" H: 1-1/4" WT: .4

STOCK #	DESC.	1EA	5+EA
14952-FH	2 Pos. Fused Block	\$7.49	\$6.95

3 POSITION FUSE BLOCK



Distribution block for Type AUE (AGU) fuses. All metal parts are 24K Gold plated. Holds 3 AUE (AGU) fuses up to 80A each. One 3 way #4 AWG input, Three 8AWG output. Inner steps to allow insulation into block. Set screw clamps, clear housing.

L: 4" W: 2-3/8" H: 1-1/4" WT: .6

STOCK #	DESC.	1EA	5+EA
14953-FH	3 Pos. Fused Block	\$9.75	\$8.95

4 POSITION FUSE BLOCK



Distribution block for Type AUE (AGU) fuses. All metal parts are 24K Gold plated. Holds 4 AUE (AGU) fuses up to 80A each. One 3 way #4 AWG input, Four 8AWG output. Inner steps to allow insulation into block. Set screw clamps, clear housing.

L: 4" W: 3" H: 1-1/4" WT: .7

STOCK #	DESC.	1EA	5+EA
14954-FH	4 Pos. Fused Block	\$10.95	\$9.95

IN LINE FUSE HOLDER



Plastic in line fuse holder. Holds a standard AGC (3AG) 1/4" dia fuse. Overall length is 9-1/2". Ideal for automotive uses etc. Max current is 3A continuous, 5A surge.

L: 9.5" O/A WT: .02

STOCK #	DESC.	1EA	5+EA
4477-FH	Inline Fuseholder	\$0.75	\$0.60

COAXIAL POWER JACK



Plastic, P.C. mount power connector. Designed for 5.5mm/2.1mm dia. power plugs. Solder terminals

WT: .004

STOCK #	DESC.	1EA	100EA
18027-PL	5.5/2.1mm Power Jack	\$0.49	\$0.39

ATC/ATO AUTOMOTIVE FUSE ASSORTMENT

120 auto fuses in plastic storage box
Each kit contains:
20pcs. 5A (Orange)
20pcs. 10A (Red)
20pcs. 15A (Blue)
20pcs. 20A (Yellow)
20pcs. 25A (Clear)
20pcs. 30A (Green)



WT: .5

STOCK #	DESC.	1EA	10+EA
15706-FU	120pc. Fuse Assort.	\$13.95	\$12.95

FUSEHOLDER FOR GMA FUSES

Panel mount fuseholder for GMA .787" X .197" (20mm X 5mm) type fuses. Rated 10A @ 250VAC. Multi-turn cap, solder terminals



Mounting Hole: 1/2" WT: .033

STOCK #	DESC.	1EA	5+EA
5585-FH	GMA Fuse Holder	\$0.50	\$0.40

CHASSIS FUSEHOLDER FOR STANDARD FUSES

Panel mount fuseholder for standard AGC (1-1/4" X 1/4") type fuses. Rated 15A @ 125 VAC/10A @ 250VAC. Multi-turn cap, solder terminals



Mounting Hole: 9/16" WT: .033

STOCK #	DESC.	1EA	5+EA
4476-FH	Std. Fuse Holder	\$0.75	\$0.65

FUSE HOLDER FOR ATQ/ATC BLADE FUSE

Fiber reinforced nylon in line fuse holder with attached cover to keep out dirt, water resistant but not water proof. For full size ATQ type blade fuses. 8" AWG12 wire loop. 30A max. current.



L: 9.5" O/A WT: .1

STOCK #	DESC.	1EA	5+EA
8878-FH	ATQ Blade Fuseholder	\$1.65	\$1.49

FUSE HOLDER FOR ATQ BLADE FUSE

Molded rubber in line fuse holder for full size ATQ blade fuses. Overall length is 9" (8" AWG12 wire loop). 30A max. current.



L: 9.5" O/A WT: .04

STOCK #	DESC.	1EA	5+EA
8879-FH	ATQ Blade Fuseholder	\$1.25	\$0.95

FUSEHOLDER & FUSE

Plastic in line fuse holder with 10A fuse installed. Holds a standard AGC (3AG) 1/4" [Dia] fuse.



L: 13" O/A WT: .05

STOCK #	DESC.	1EA	10+EA
18082-FH	Fuseholder/10A Fuse	\$0.99	\$0.89

SUB MINI FUSES

Fuses the size of a 1/4W resistor. Wire leads
SOLD IN PACKS OF 5 SAME VALUE

L: 3/8"(Body)	Dia: 1/8"	STOCK #	AMPS	DESC.	1PK	10+PK
		1786-FU	.5	Submini Fuse	\$2.00	\$1.60
		12130-FU	2	Submini Fuse	\$2.00	\$1.60



TY-RAPS

UL listed Natural or Black Nylon ties
Sold in packs of 100

STOCK #	DESC.	1PK	10+PK
0200-TY	5-1/2" Ty-Rap	.1	\$1.70 \$1.50
4529-TY	7-1/2" Ty-Rap	.2	\$2.80 \$2.00
4530-TY	11" Ty-Rap	.5	\$5.00 \$3.90
11630-TY	4" Black Ty-Rap	.1	\$1.30 \$1.10
11508-TY	7-1/2" Black Ty-Rap	.2	\$2.50 \$2.00
11633-TY	11" Black Ty-Rap	.5	\$6.90 \$5.50
0199-TY	4" Ty-Rap	.1	\$1.10 \$0.90

STAINLESS STEEL TIES

6pc. steel wire ties. For wire, cable or pipes.



17545: L: 7" W: 3/16" WT: .05
17873: L: 12" W: 6/16" WT: .1

STOCK #	DESC.	1EA
17545-TY	6 Pack 7in. Wire Ties	\$1.95
17873-TY	6 Pack 12in. Wire Ties	\$3.50

GMA FUSES

.787" X .197" dia. (20mm X 5mm)
Metric fuses for use in equipment designed for world wide use



SOLD IN PACKS OF 10 SAME VALUE.
L: .787" Dia: .197" WT: .02/pk

STOCK #	AMPS	DESC.	1PK	10+PK
15761-FU	.5	GMA Fuse	\$0.80	\$0.60
15762-FU	1	GMA Fuse	\$0.80	\$0.60
15763-FU	1.5	GMA Fuse	\$0.80	\$0.60
15764-FU	2	GMA Fuse	\$0.80	\$0.60
15765-FU	3	GMA Fuse	\$0.80	\$0.60
15766-FU	4	GMA Fuse	\$0.80	\$0.60
15767-FU	5	GMA Fuse	\$0.80	\$0.60
15768-FU	6	GMA Fuse	\$0.80	\$0.60
15769-FU	8	GMA Fuse	\$0.80	\$0.60
15770-FU	10	GMA Fuse	\$0.80	\$0.60
15771-FU	15	GMA Fuse	\$0.80	\$0.60

AGU/AUE FUSES

Audio System Distribution Fuses
High performance Gold Plated



L: 1-1/2" Dia: 13/32" WT: .02

STOCK #	AMPS	DESC.	1EA	5+EA
14990-FU	30	AGU/AUE Fuse	\$2.25	\$1.90
14991-FU	40	AGU/AUE Fuse	\$2.25	\$1.90
14992-FU	50	AGU/AUE Fuse	\$2.25	\$1.90
14993-FU	60	AGU/AUE Fuse	\$2.25	\$1.90
14994-FU	80	AGU/AUE Fuse	\$2.25	\$1.90

ANL/ANE FUSES

Audio System Distribution Fuses
High performance Gold Plated



L: 3-1/8" W: 7/8" T: 3/8 WT: .06

STOCK #	AMPS	DESC.	1EA	5+EA
14998-FU	80	ANE/ANL Fuse	\$3.49	\$2.95
14999-FU	100	ANE/ANL Fuse	\$3.49	\$2.95
15000-FU	130	ANE/ANL Fuse	\$3.49	\$2.95
15001-FU	150	ANE/ANL Fuse	\$3.49	\$2.95
15002-FU	175	ANE/ANL Fuse	\$3.49	\$2.95
15003-FU	200	ANE/ANL Fuse	\$3.49	\$2.95

FUSES



General use electronic fuses.
SOLD IN PACKS OF 10 SAME VALUE.
L: 1-1/4" Dia: 1/4" WT: .03/pk

STOCK #	AMPS	DESC.	1PK	10+PK
15775-FU	.25	Std. Blow Fuse	\$0.99	\$0.80
15776-FU	.50	Std. Blow Fuse	\$0.99	\$0.80
15777-FU	1	Std. Blow Fuse	\$0.99	\$0.80
15778-FU	1.5	Std. Blow Fuse	\$0.99	\$0.80
15779-FU	2	Std. Blow Fuse	\$0.99	\$0.80
15780-FU	4	Std. Blow Fuse	\$0.99	\$0.80
15781-FU	5	Std. Blow Fuse	\$0.99	\$0.80
15782-FU	6	Std. Blow Fuse	\$0.99	\$0.80
15783-FU	8	Std. Blow Fuse	\$0.99	\$0.80
15784-FU	10	Std. Blow Fuse	\$0.99	\$0.80
15785-FU	20	Std. Blow Fuse	\$0.99	\$0.80

ATC AUTOMOTIVE

ATC (ATQ) Blade type fuses used in cars



SOLD IN BOXES OF 10 OF SAME VALUE.
WT: .05/pk

STOCK #	AMPS	DESC.	1PK	10+PK
4215-FU	3	Automotive Fuse	\$1.50	\$1.20
3613-FU	5	Automotive Fuse	\$1.50	\$1.20
3614-FU	7.5	Automotive Fuse	\$1.50	\$1.20
3615-FU	10	Automotive Fuse	\$1.50	\$1.20
3616-FU	15	Automotive Fuse	\$1.50	\$1.20
3617-FU	20	Automotive Fuse	\$1.50	\$1.20
3618-FU	25	Automotive Fuse	\$1.50	\$1.20
3619-FU	30	Automotive Fuse	\$1.50	\$1.20

AST MINI AUTOMOTIVE

AST Mini Blade type fuses used in cars
SOLD IN BOXES OF 10 OF SAME VALUE.



WT: .05/pk

STOCK #	AMPS	DESC.	1PK	10+PK
15721-FU	5	Automotive Fuse	\$1.90	\$1.75
15722-FU	7.5	Automotive Fuse	\$1.90	\$1.75
15723-FU	10	Automotive Fuse	\$1.90	\$1.75
15724-FU	15	Automotive Fuse	\$1.90	\$1.75
15725-FU	20	Automotive Fuse	\$1.90	\$1.75
15726-FU	25	Automotive Fuse	\$1.90	\$1.75
15727-FU	30	Automotive Fuse	\$1.90	\$1.75

15A FUSE HOLDER



Bussman 2839 fuseholder for 1/4in X 1-1/4in. Fuses. Chassis mount 1/4" quick connect terminals. Marked "CU ONLY". Rated 15 UL 250VAC Max.

L: 1-9/16" Base W: 1/2" H: 3/4" O/A WT: .015

STOCK #	DESC.	1EA	10EA
16795-FU	Buss 2839 Fuseholder	\$0.75	\$0.49

RFI INLET MODULE



POWER DYNAMICS HGN-365-6M-F1, Flange mount, power inlet/RFI Filter. Rated: 6A @ 125/250VAC. Standard male 3 blade IEC cord connector and fuse holder. .250 quick connect output terminals, 5 X 20mm type fuse. UL/CSA listed.

W: 1-3/4" H: 1-3/8" D: 2-1/4" WT: .17

STOCK #	DESC.	1EA
18055-FH	6A Power Inlet & RFI Module	\$4.95

1A RECTIFIER DIODES



1N4000 series 1 Amp Axial diodes. DO-04 Case
WT: .001

STOCK #	DESC.	PIV	1EA	200EA	1000+EA
5211-DI	1N4001	50	\$0.05	\$0.04	\$0.03
5212-DI	1N4002	100	\$0.05	\$0.04	\$0.03
5213-DI	1N4003	200	\$0.06	\$0.05	\$0.03
5214-DI	1N4004	400	\$0.06	\$0.05	\$0.04
5215-DI	1N4005	600	\$0.06	\$0.05	\$0.04
5216-DI	1N4006	800	\$0.06	\$0.05	\$0.04
5217-DI	1N4007	1000	\$0.07	\$0.06	\$0.04

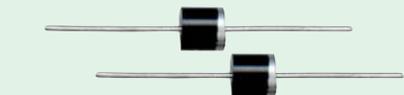
3A RECTIFIER DIODES



1N5400 series 3 Amp Axial diodes. DO-201AD Case
Dia: .375 WT: .001

STOCK #	DESC.	PIV	10EA	200EA	800+EA
4991-DI	1N5400	50	\$0.25	\$0.18	\$0.16
4992-DI	1N5401	100	.19	.14	.12
4993-DI	1N5402	200	.20	.14	.13
4995-DI	1N5404	400	.21	.15	.13
4996-DI	1N5405	500	.21	.15	.13
4997-DI	1N5406	600	.22	.16	.14
4998-DI	1N5407	800	.23	.16	.15
4999-DI	1N5408	1000	.23	.17	.15

6A RECTIFIER DIODES

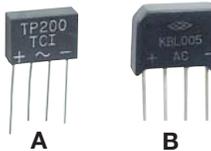


P600 series 6 Amp Axial diodes. 1" leads
Dia: .39" WT: .002

STOCK #	DESC.	PIV	10EA	200EA	800+EA
5218-DI	P600A	50	\$0.54	\$0.39	\$0.35
5219-DI	P600B	100	\$0.60	.43	.38
5220-DI	P600D	200	\$0.65	.47	.42
5221-DI	P600G	400	\$0.70	.51	.45
5222-DI	P600J	600	\$0.76	.55	.49
5223-DI	P600K	800	\$0.76	.55	.49
5224-DI	P600M	1000	\$0.76	.55	.49

IN-LINE BRIDGES

WIRE LEADS



WT: .001

STOCK #	AMP.	PIV	FIG.	1EA	25+EA
5234-BR	2	50	A	\$0.44	\$0.39
5235-BR	2	400	A	\$0.54	\$0.48
5236-BR	2	1000	A	\$0.62	\$0.55
5237-BR	4	50	B	\$0.75	\$0.67
5238-BR	4	200	B	\$0.88	\$0.79
5239-BR	4	400	B	\$0.98	\$0.88
5203-BR	4	1000	B	\$1.49	\$1.34

6A SQ. BRIDGE

Wire Leads for PC Board Mtg



WT: .001

STOCK #	PIV	DESC.	1EA	25+EA
5241-BR	50	6A Bridge	\$0.88	\$0.79
5243-BR	1000	6A Bridge	\$1.35	\$1.21

BRIDGE RECTIFIERS

Square package, .250" Quick connect terminals.



WT: .05 15-30A / .1 50A

STOCK #	AMP.	PIV	1EA	25+EA
5244-BR	15	100	\$1.91	\$1.70
5245-BR	15	400	\$2.65	\$2.38
5246-BR	15	1000	\$3.44	\$3.09
5247-BR	25	50	\$1.95	\$1.75
5248-BR	25	400	\$2.70	\$2.43
5249-BR	25	1000	\$3.49	\$3.14
5250-BR	35	50	\$2.25	\$1.99
5251-BR	35	400	\$2.99	\$2.69
5252-BR	35	1000	\$3.99	\$3.59
5253-BR	50	50	\$3.95	\$3.50
5254-BR	50	400	\$5.75	\$4.95
5255-BR	50	1000	\$6.45	\$5.95

1A MINI DIP BRIDGES

4 pin Mini DIP Package for socket or PC board mounting



WT: .001

STOCK #	PIV	DESC.	1EA	50+EA
5225-BR	50	1A DIP Bridge	\$0.39	\$0.35
5226-BR	200	1A DIP Bridge	\$0.42	\$0.37
5227-BR	400	1A DIP Bridge	\$0.44	\$0.39
5228-BR	800	1A DIP Bridge	\$0.50	\$0.45

1.5A ROUND BRIDGE

1.5 Amp, Wire Leads for PC Board Mtg



WT: .001

STOCK #	PIV	DESC.	1EA	50+EA
5230-BR	50	1.5A Bridge	\$0.35	\$0.32
5231-BR	200	1.5A Bridge	\$0.37	\$0.33
5232-BR	400	1.5A Bridge	\$0.39	\$0.35
5233-BR	800	1.5A Bridge	\$0.48	\$0.43

2A BRIDGE RECTIFIER

WT: .01

STOCK #	AMP	VOLTS	DISC	1EA	25+EA
15901-BR	2	1000	Bridge	\$0.52	\$0.47

VOLTAGE REGULATOR SPECIAL

NEC uPC-141CA, (Same as LM305) adjustable 2-30V DC, positive regulator. 12mA output is ideal for pass transistor drivers in high current supplies or use as on-board regulators.



WT: .1

STOCK #	DESC.	1EA	25+EA
1216-RG	NEC Regulator	\$0.50	\$0.35

LOGIC DIODES

General purpose silicon logic diodes at OEM prices.

WT: .05/15 .16/100

STOCK #	DESC.	15+EA	100+EA
1670-DI	1N4148 Diode	\$0.06	\$0.04
0614-DI	1N914 Diode	\$0.05	\$0.03

VOLTAGE REGULATORS

TO-220 CASE

32VDC Max input Voltage
1Amp Output, three terminal regulators



WT: .001

STOCK #	IND. #	OUT V	1EA	25+EA
0359-RG	7805/340-5	+5	\$0.50	\$0.35
0366-RG	7905	-5	\$0.50	\$0.35
0361-RG	7812	12	\$0.50	\$0.35
0367-RG	7912	-12	\$0.50	\$0.35
0368-RG	7915	-15	\$0.50	\$0.35
0363-RG	7818	+18	\$0.50	\$0.35
0364-RG	7824	+24	\$0.50	\$0.35

LM-317 ADJ. VOLTAGE REGULATOR

One of the most popular Adjustable regulator of all time. Rated: 3-37VDC input; 1.2-35V adjustable output at 1A.



WT: .05

STOCK #	DESC.	1EA	25+EA
0365-RG	LM317 Adj. Regulator	\$0.75	\$0.49

7812 VOLTAGE REGULATOR

Fully insulated mtg. Tab does not require insulating pad, washer or isolated heat sink. The most popular 12V regulator. Rated: 3-30VDC input. 12VDC @ 1A out



WT: .05

STOCK #	DESC.	1EA	25+EA
16827-RG	7812 +12V Regulator	\$0.50	\$0.35

TRANSISTOR SPECIAL

General purpose, small signal amplifiers in TO-226 plastic case.



WT: .001

STOCK #	IND. #	1EA	100EA	2000+EA
2030-QT	PN-2222A	\$0.25	\$0.12	\$0.06
2224-QT	2N3906	\$0.25	\$0.12	\$0.06
4024-QT	2N4401	\$0.25	\$0.12	\$0.06

NE555 TIMER IC

Work horse of all timing circuits. 8 Pin Mini DIP.



WT: .001

STOCK #	DESC.	1EA	5+EA
2350-IC	NE555 Timer IC	\$0.50	\$0.42

PLL MOTOR CONTROL IC

Toshiba TC9203P Phase Lock Loop IC. Designed to control the spindle motor in Floppy Drives. Built in Oscillator, Auto Phase control, Auto Frequency control, many features needed to control motor speed.



WT: .01

STOCK #	DESC.	1EA	25+EA
8381-IC	Toshiba PLL IC	\$1.25	\$1.00

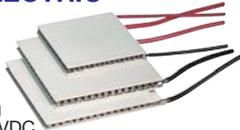
OPTO INTERRUPTER

MFG: LITEON
P/N: LTH-301-23
LED: 60mA max 5VDC max reverse volts
OUTPUT TRANSISTOR: 20mAmax /30Vce max
Ic on state: .4mA @ Vce=5V
CONNECTION: PC Mount
.197" Wide X .30" deep gap, Opto transistor output.
L: .54" H: .39" T: .22" WT: .0015



STOCK #	DESC.	1EA	10EA
18028-OP	Liteon Opto-Interrupter	\$0.45	\$0.38

12V THERMOELECTRIC COOLING MODULES



127 couple Peltier cooling modules optimized for 12VDC.
12326-PM: MJ1.4-127-1.14 70W (~170 BTU) heat pumping possible. 8A max, 16V max, Draws 6A@ 12VDC
 L: 1-11/16" W: 1-9/16" T: .127 WT: .06
9080-PM: MJ1.4-127-1.65 50W (~125 BTU) heat pumping possible. 5.5A max, 16V max, Draws 4.8A@ 12VDC
 L: 1-11/16" W: 1-9/16" T: .18 WT: .06
12323-PM: MJ1.0-127-1.27 38W (~90 BTU) heat pumping possible. 3.9A max, 16V max, Draws 3A@ 12VDC
 L: 1-1/4" W: 1-5/16" T: .13 WT: .03

STOCK #	DESC.	1EA	10+EA
12326-PM	70W Peltier Module	\$17.95	\$16.95
9080-PM	50W Peltier Module	\$14.95	\$13.95
12323-PM	38W Peltier Module	\$11.95	\$10.95

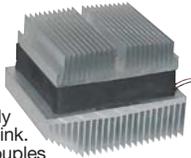
THERMOELECTRIC ASSEMBLY



Peltier Effect cooling assembly. Contains module with 127 Pairs of couples mounted to a heatsink assembly. Optimized for 12VDC. 65-70W (~170 BTU). 8A max, 16V max, Draws 6A @ 12VDC. Approx. 50Deg "C" temp. difference with hot side fan (Not included) and insulated cold side. Designed for recreational coolers.
 L: 5" W: 5-1/8" T: 3-3/4" WT: 2.6

STOCK #	DESC.	1EA	24+EA
15312-PM	Peltier Cooler Unit	\$29.95	\$27.95

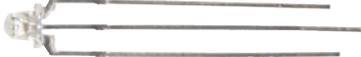
LARGER THERMOELECTRIC ASSEMBLY



Peltier Effect cooling assembly with larger, more efficient heatsink. Uses module with 127 Pairs of couples mounted to a heatsink assembly. Optimized for 12VDC. 65-70W (~170 BTU). 8A max, 16V max, Draws 6A @ 12VDC. Approx. 50Deg "C" temp. difference with hot side fan (Not included) and insulated cold side. Designed for recreational coolers.
 L: 6" W: 4-5/8" T: 4-1/4" WT: 3.4

STOCK #	DESC.	1EA	24+EA
15513-PM	Peltier Cooler Unit	\$37.95	\$34.95

3MM YELLOW/GREEN LED



3mm (T1) Bi-Color Yellow/Green LED, 3 leads. Transparent, non-diffused case. Common Cathode with separate Anode for each color. 1" Leads.
 Wavelength: Y585/G565nm
 Output: 19mcd typ.
 Max forward current 20mA continuous.
 Forward Drop: Y2.6/G2.5V typ
 Max reverse Voltage: 5VDC.
 WT: .0001

STOCK #	DESC.	1EA	500+EA
18037-OP	C/C 1mm Bi-Color LED	\$0.10	\$0.07

5 X 7 RED LED MATRIX



CSM P/N CSM-57221S LED Matrix. White body gray Face. Connected Cathode Column/Anode Row
 Fwd current/Dot: 130mA max 30mA Ave
 Max reverse Volts: 5V
 Fwd. Drop: 2.5V @ 20ma Max/ 1.8V Typ.
 660nm Red
 2in height, stackable horizontally. DATA
 H: 2" W: 1-1/2" WT: .05

STOCK #	DESC.	1EA	500+EA
18068-OP	2in 5X7 Red LED Matrix	\$1.25	

10MM WHITE 15000mcd LED



White, 10mm LED. Water clear case. 15000mcd, typ. light output. Max forward current 30mA continuous, 20mA recommended. 5VDC Max reverse Voltage. 3.8VDC typ. 4.5V max. Forward voltage drop. 15deg. View angle. 1" leads.
 WT: .004

STOCK #	DESC.	1EA	100+EA
15415-OP	10mm WHITE LED	\$0.43	\$0.30

LED SPECIAL



Jumbo diffused red LEDs and mounting clips, rated current=20mA, max current=30mA, buy your LEDs and get mounting clips for one low price.
 Sold in Packs of 10
 WT: .001

STOCK #	DESC.	1PK	10+PK
1413-OP	LEDs & Holders	\$1.75	\$1.65

12V G-4 BI-PIN LED LAMPS



Bi-pin bulb replacement assembly features: 14 super brite LEDs, 12VAC or DC operation, 55deg. beam angle. Replacement for most G-4 lamps. .9mm dia. X 8mm Steel Pins, plastic body.
 Dia.: 22.5mm T: 11mm WT: .009

STOCK #	DESC.	1EA	10+EA
17352-OP	Red LED Bi-Pin Lamp	\$8.95	\$6.95
17353-OP	Yellow LED Bi-Pin Lamp	\$8.95	\$6.95
17354-OP	Green LED Bi-Pin Lamp	\$8.95	\$6.95
17355-OP	Blue LED Bi-Pin Lamp	\$8.95	\$6.95
17356-OP	White LED Bi-Pin Lamp	\$8.95	\$6.95

I/R PHOTO TRANSISTOR



STANLEY PS5022 Silicon NPN photo transistor in 3.4mm Sq. flat package. Rated: BVceo= 30V, Ic=20mA, Vcesat= 100mV, Max sensitivity wavelength= 880nm, 1/2 angle=+ 20deg, photo current @ 1mW/cm2 @ 880nm= .4mA min/2mA typ. .4" leads.
 WT: .001

STOCK #	DESC.	1EA	10+EA
17756-QT	Stanley Phototransistor	\$0.19	\$0.18

I/R PHOTO TRANSISTOR



Siemens SFH309FA4 Silicon NPN photo transistor in T-1 LED case with I/R filter. Rated: BVceo= 35V, Ic=15mA, Vcesat= 200mV, Max sensitivity wavelength= 900nm, Photosensitivity range= 730-1120nm, 1/2 angle=+ 12°, photo current @ .5mW/cm2 @ 950nm= 1-2mA. 1" leads
 WT: .001

STOCK #	DESC.	1EA	25+EA
8949-OP	Photo Transistor	\$0.30	\$0.25

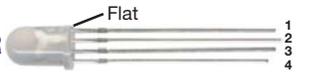
5 X 7 GREEN LED MATRIX



Liteon LTP-2057AG LED Matrix. Connected Anode Column/Cathode Row
 Fwd current/Dot: 100mA max 13mA Ave
 Max reverse Volts: 5V
 Fwd. Drop: 2.6V @ 20ma Max/ 2.1V Typ.
 565nm Green
 2in height, stackable horizontally. DATA
 H: 2" W: 1-1/2" WT: .05

STOCK #	DESC.	1EA	25EA
16786-OP	5X7 Green LED Matrix	\$3.95	\$2.95

5MM TRI-COLOR LEDS



5mm (T1-3/4) Tri-Color Red/Green/Blue LED 4 leads. Transparent, diffused case. Available Common Anode (C/A) or Cathode (C/C) with separate Cathode or Anode lead for each color. 1" leads
 Wavelength: R630/G525/B430nm,
 Min. output: R200/G300/B150mcd.
 Max forward current 20mA continuous.
 Max Forward Drop: R2.5/G4.5/B4.5V.
 Max reverse Voltage =5VDC.
 WT: .001

STOCK #	DESC.	1EA	10+EA
17137-OP	C/A 5mm Tri-Color LED	\$0.99	\$0.74
17138-OP	C/C 5mm Tri-Color LED	\$0.99	\$0.74

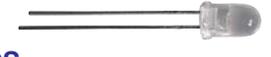
5MM RED/GREEN LEDS



5mm (T1-3/4) Bi-Color Red/Green LED 3 leads. Transparent, diffused case. Common Cathode with separate Anode for each color. 1" Leads.
 Wavelength: R635/G570nm
 Min. output: R8/G5mcd
 Max forward current 20mA continuous.
 Max Forward Drop: R2.5/G2.5V.
 Max reverse Voltage =5VDC.
 WT: .001

STOCK #	DESC.	1EA	10+EA
17136-OP	C/C 5mm Bi-Color LED	\$0.15	\$0.11

5MM RED/GREEN BI-POLAR LEDS



5mm (T1-3/4) Bi-Color, Bi-Polar, Red/Green LED 2 leads. Transparent, diffused case. Red & Green LEDs connected in Anti-Parallel. 1" Leads.
 Wavelength: R635/G570nm
 Min. output: R8/G5mcd
 Max forward current 20mA continuous.
 Max Forward Drop: R2.5/G2.5V.
 Max reverse Voltage =5VDC.
 WT: .001

STOCK #	DESC.	1EA	10+EA
17135-OP	C/C 5mm Bi-Polar LED	\$0.15	\$0.11

5 X 7 RED & GREEN LED MATRIX



Liteon LTP-2757AA LED Matrix. Connected Anode Column/Cathode Row
 Fwd current/Dot: 100mA max/13mA Ave
 Max reverse Volts: 5V
 Fwd. Drop: 2.6V @ 20ma Max
 2.1V Green 2.0V Red Typ.
 Two color: red/orange (630nm) & Green (565nm) in separate Row/column matrix.
 2in height, stackable horizontally. DATA
 H: 2" W: 1-1/2" WT: .05

STOCK #	DESC.	1EA	12EA
16784-OP	5X7 LED Matrix	\$5.95	\$4.95

5 X 7 ORANGE LED MATRIX



Liteon LTP-2057AE LED Matrix. Connected Anode Column/Cathode Row
 Fwd current/Dot: 100mA max 13mA Ave
 Max reverse Volts: 5V
 Fwd. Drop: 2.6V @ 20ma Max/ 2.1V Typ.
 630nm Orange
 2in height, stackable horizontally. DATA
 H: 2" W: 1-1/2" WT: .05

STOCK #	DESC.	1EA	25EA
16794-OP	5X7 Orange LED Matrix	\$3.95	\$2.95



WATER CLEAR

COLORED 5MM/T1-3/4

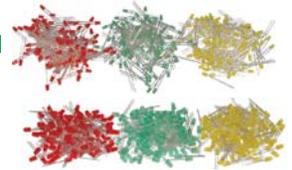
COLORED 3MM/T1

COLORED 10MM

STOCK#	COLOR/WAVELENGTH	INTENSITY	SIZE	CASE	VF	VRev max	IF cont.	WT	1EA	10+EA	100+EA
0206-OP	Red/660nm	2mcd Typ	3mm/T1	Red Non Diffused	1.8V	5V	20mA	.001	\$0.09	\$0.07	\$0.06
0972-OP	Green/565nm	3mcd Typ	3mm/T1	Green Non Diffused	2.2V	5V	20mA	.001	\$0.10	\$0.08	\$0.07
0973-OP	Yellow/585nm	3mcd Typ	3mm/T1	Yellow Non Diffused	2.1V	5V	20mA	.001	\$0.10	\$0.08	\$0.07
14143-OP	Near UV/400nm	80mcd Typ	5mm/T1-3/4	Water Clear	3.6V	5V	20mA	.001	\$0.29	\$0.22	\$0.20
12568-OP	Blue/470nm	3900mcd Typ	5mm/T1-3/4	Water Clear	4.0V	5V	20mA	.001	\$0.34	\$0.25	\$0.23
17145-OP	White	10000 Typ	5mm/T1-3/4	Water Clear	3.2V	5V	20mA	.001	\$0.34	\$0.25	\$0.23
16798-OP	IR /940nm/20deg.	17mW/sr	5mm/T1-3/4	Water Clear	1.2V	5V	20mA	.001	\$0.20	----	----
17139-OP	Red/660nm	690mcd Min	5mm/T1-3/4	Water Clear	2.0V	5V	20mA	.001	\$0.18	\$0.16	\$0.14
11017-OP	Red/630nm	3000mcd Typ	5mm/T1-3/4	Water Clear	2.1V	5V	20mA	.001	\$0.29	\$0.22	\$0.20
15109-OP	Red/635nm	3000mcd Typ	5mm/T1-3/4	Red Non Diffused	2.0V	5V	20mA	.001	\$0.25	\$0.20	\$0.15
15110-OP	Green/572nm	1000mcd Typ	5mm/T1-3/4	Green Non Diffused	2.2V	5V	20mA	.001	\$0.45	\$0.35	\$0.30
17142-OP	Green/574nm	460mcdmin	5mm/T1-3/4	Water Clear	2.1V	5V	20mA	.001	\$0.18	\$0.16	\$0.14
17143-OP	Pure Green/525nm	5000mcd Min	5mm/T1-3/4	Water Clear	3.4V	5V	20mA	.001	\$0.39	\$0.30	\$0.28
15111-OP	Yellow/585nm	3000mcd Typ	5mm/T1-3/4	Yellow Non Diffused	2.2V	5V	20mA	.001	\$0.25	\$0.20	\$0.15
18036-OP	Yellow/585nm	40Typ	5mm/T1-3/4	Yellow Non Diffused	2.6	5v	20mA	.001	\$0.10	\$0.07	\$0.05
17141-OP	Yellow/590nm	2000mcd Min	5mm/T1-3/4	Water Clear	2.5V	5V	20mA	.001	\$0.18	\$0.16	\$0.14
0641-OP	Red/700nm	3.2mcd Typ	5mm/T1-3/4	Red Diffused	1.7V	5V	20mA	.001	\$0.10	\$0.09	\$0.08
4085-OP	Green/565nm	5mcd Typ	5mm/T1-3/4	Green Diffused	2.2V	5V	20mA	.001	\$0.15	\$0.14	\$0.12
18053-OP	Green/565nm/.5"Leads	19mcd Typ	5mm/T1-3/4	Green Diffused	2.2V	5V	20mA	.001	\$0.10	\$0.07	\$0.05
4086-OP	Yellow/590nm	5mcd Typ	5mm/T1-3/4	Yellow Diffused	2.1V	5V	20mA	.001	\$0.15	\$0.14	\$0.12
18038-OP	Red/Orange/630	19mcd/Typ	5mm/T1-3/4	Red Diffused	2.0V	5V	20mA	.001	\$0.10	\$0.07	\$0.05
18039 OP	Red/Orange/630	20Typ	5mm/T1-3/4	Water Clear	2.0V	5V	20mA	.001	\$0.10	\$0.07	\$0.05
17140-OP	Red/Orange/630nm	1500mcd Min	5mm/T1-3/4	Water Clear	2.1V	5V	20mA	.001	\$0.18	\$0.16	\$0.14
15132-OP	Red/660nm	450mcd Typ	10mm	Red Diffused	1.8V	5V	20mA	.001	\$0.25	\$0.20	\$0.15
15133-OP	Green/568nm	300mcd Typ	10mm	Green Diffused	2.2V	5V	20mA	.001	\$0.30	\$0.25	\$0.20
15134-OP	Yellow/590nm	600mcd Typ	10mm	Yellow Diffused	2.1V	5V	20mA	.001	\$0.30	\$0.25	\$0.20

BULK PACK LEDs 100PCS/PACK

STOCK#	COLOR/WAVELENGTH	INTENSITY	SIZE	CASE	VF	VRev max	IF cont.	WT	1PKG
15101-OP	Red/635nm	20mcd Typ	3mm/T1	Red Diffused	1.8V	5V	20mA	.1	\$1.95
15102-OP	Green/568nm	10mcd Typ	3mm/T1	Green Diffused	2.2V	5V	20mA	.1	\$1.95
15103-OP	Yellow/590nm	10mcd Typ	3mm/T1	Yellow Diffused	2.1V	5V	20mA	.1	\$1.95
15108-OP	Red/635nm	50 mcd Typ	5mm/T1-3/4	Red Diffused	1.8V	5V	20mA	.1	\$1.95
15308-OP	Green/568nm	5mcd Typ	5mm/T1-3/4	Green Diffused	2.2V	5V	20mA	.1	\$1.95
15309-OP	Yellow/590nm	5mcd Typ	5mm/T1-3/4	Yellow Diffused	2.1V	5V	20mA	.1	\$1.95



LED KIT #1

110 Piece, LED assortment packed in a plastic divider box, contains: 5pcs. 5mm Hi intensity White;10ea. of the following: 5mm red, green, yellow & infrared; 3mm red, green & yellow; 30ea. black mounting clips for 5mm LEDs.



WT: .3

STOCK #	DESC.	1EA	10+EA
16313-OP	LED Assortment Kit 1	\$9.95	\$7.95

LED KIT #2

110 Piece, LED assortment packed in a plastic divider box, contains: 5pcs. 5mm Red/Green Bipolar (2 lead); 10ea. of the following: 5mm red, green, yellow & infrared; 3mm red, green & yellow; 30ea. black mounting clips for 5mm LEDs.

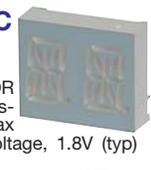


WT: .3

STOCK #	DESC.	1EA	10+EA
3770-OP	LED Assortment Kit 2	\$9.95	\$7.95

DUAL ALPHA-NUMERIC DISPLAYS

Dual .54" Red, Common Anode OR Common Cathode, 16 Segment display. 660nm, 2.5-5 mcd, 20mA max forward current, 5V max reverse voltage, 1.8V (typ) forward drop. Gray face color

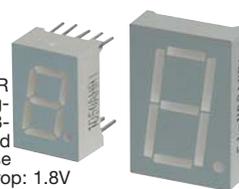


WT: .02

STOCK #	DESC.	1EA	10+EA
15128-OP	.54" Com. Anode Alpha.	\$1.95	\$1.49
15129-OP	.54" Com. Cath. Alpha.	\$1.95	\$1.49

7SEGMENT DISPLAYS

Red, Common Anode OR Common Cathode 7 segment display. 660nm, 3-4.5mcd, 20mA max forward current, 5V max reverse voltage. Typ. Forward Drop: 1.8V for .5in. /3.6V for 1". Gray face color

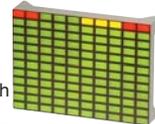


WT: .02

STOCK #	DESC.	1EA	10+EA
15118-OP	.5" Com. Anode Display	\$1.30	\$1.09
15119-OP	.5" Com. Cath. Display	\$1.30	\$1.09
15120-OP	1" Com. Anode Display	\$0.95	\$0.89
15121-OP	1" Com. Cath. Display	\$0.95	\$0.89

LED MATRIX DISPLAY

Unique LED graphical display with rectangular LEDs in a 10X12 matrix. TYPE: X/YY Matrix. Colors as shown



Dominant Color
RED 1.9 Typ @ 20mA 3-7 mCd 660nm
GREEN 2.1 Typ @ 20mA 3-5 mCd 565nm
YELLOW 2.2 Typ @ 20mA 3-5 mCd 585nm

STOCK #	DESC.	1EA
18050-OP	10 X 12 LED Matrix Display	\$1.95

2" DOT MATRIX DISPLAYS

Red, Common Anode OR Common Cathode, 5 X 7 Dot Matrix display. 660nm, 5-9 mcd, 20mA max forward current, 5V max reverse voltage, 1.8V (typ) forward drop. Gray face color



WT: .02

STOCK #	DESC.	1EA	10+EA
15124-OP	2" Com. Anode Dot Matrix	\$4.59	\$3.39
15125-OP	2" Com. Cath. Dot Matrix	\$4.59	\$3.39

LED TESTER

Compact, pocket sized checker/comparator for LEDs. 12 position test socket strip provides test currents of 2,5, 10,20,30 & 50mA. 7 center positions provide 10mA test current allowing you to compare several LED at the same time. Requires 9V battery (not supplied)



WT: .1

STOCK #	DESC.	1EA	5+EA
14371-TE	LED Tester	\$6.95	\$5.95

JUMBO LED MOUNTING CLIPS

Two part black plastic mounting clips for .200" LEDs, use to panel mount LEDs.



WT: .001

STOCK #	DESC.	1EA	200+EA
0207-OP	Black LED Mtg. Clips	\$0.10	\$0.09

12V LED STRIPS



Water resistant, PVC encapsulated, flexible strip of 12 LEDs on 25mm C/C. 12VDC operation 75mA max current draw. 120 deg. view angle. Header sockets at both ends allowing interconnection of up to 50 strips. Individual LED Intensity:
 Red: 80mcd Green: 180mcd Amber: 80mcd
 Blue: 70mcd White: 230mcd
 L: 29.5cm W: 10mm WT: .022

STOCK #	DESC.	1EA	10+EA
17358-OP	Red LED Flex Strip	\$12.95	\$8.95
17359-OP	Green LED Flex Strip	\$12.95	\$8.95
17360-OP	Amber LED Flex Strip	\$12.95	\$8.95
17361-OP	Blue LED Flex Strip	\$12.95	\$8.95
17362-OP	White LED Flex Strip	\$12.95	\$8.95

12V RGB LED STRIP



Water resistant, PVC encapsulated, flexible strip of 36 LEDs Grouped 1 each color on 25mm C/C. Total of 12ea Red/Green & Blue. Each color can be powered independently or concurrently. 12VDC operation, 220mA max draw. 120deg. view angle. Header sockets at both ends allowing interconnection of 20 strips. Individual LED Intensity:
 Red: 80mcd Green: 180mcd Blue: 70mcd
 When used with 17365-OP Controller; strip will slowly cycle through combinations of the 3 colors. Approx. cycle time is 16sec.
 NOTE: Cannot be connected to Single Color Strips
 L: 29.5cm W: 10mm WT: .022

STOCK #	DESC.	1EA	10+EA
17363-OP	R/G/B LED Flex Strip	\$16.95	\$12.95

12V RGB STRIP DRIVER



NEW SMT Driver module that plugs directly into the 17363-OP RGB LED strip. Controller will slowly cycle through combinations of the 3 colors. Approx. cycle time is 16sec. 24in Power cord with a 5.5/2.5mm Jack on end 12VDC operation.
 NOTE: Cannot be connected to Single Color Strips
 L: 24" WT: .02

STOCK #	DESC.	1EA	10+EA
18137-OP	R/G/B Driver Module	\$8.95	\$6.95

POWER CHOKES



DALE IH Series high current filter chokes. 1in. Radial tinned leads for P.C. mount. Rated: +-10% Ind. tol. -55+-75° "C" operating temp. at full load.
 IH-3-10uH/.018 ohm DC res./9A cont. L: 1" Dia: .63"
 IH-5-50uH/.03 ohm DC res./8A cont. L: 1" Dia: .84"
 IH-5-150uH/.06 ohm DC res./7A cont. L: 1.6" Dia: .9"
 L: 1.6" Dia: .9" WT: .11

STOCK #	DESC.	WT.	1EA
18059-CH	IH-3 10uH Choke	.03	\$0.75
18048-CH	IH-5 50uH Choke	.07	\$1.25
18058-CH	IH-5 150uH Choke	.11	\$1.49

20 X 4 LINE LCD B/L DISPLAY



MFG: BOLYMIN
 P/M: BC2004AYPLEH\$
 Resolution: 4 Lines X 20 Char.
 Char. Size: 2.95 X 4.75mm
 Char. Pitch: .6mm
Specifications/Features: 5 X 7 + cursor Transflective type Dot Matrix display with built in controller (KS0066) & drivers. Yellow/Green LED Backlight. Requires single +5V for logic and LCD drive. LED supply: Max Current 250mA, Max Reverse Voltage: 8VDC, REQUIRES EXTERNAL RESISTOR. 16 Power & data pins. Data.
 L: 3-7/8" W: 2-3/8" T: 1/2" WT: .15

STOCK #	DESC.	1EA	10+EA
17165-OP	20 X 4 Bolymin LCD	\$19.95	\$17.95

5 TURN 5.6K POT



Removed from new equipment. 5 turn, wirewound pot Rated:5.6K ohm +- 5% , 3 W, 0.5% linearity. 5/32" dia. X 1/2" long steel shaft. Mounts in 5/16" hole. Includes nut and star washer. One end & tap are soldered together.
 L: 1-1/16" body Dia: 13/16" WT: .05

STOCK #	DESC.	1EA
17604-PT	5.6Kohm Pot	\$4.95

100 WATT RESISTOR



Dale aluminum cased, chassis mt. power resistor rated: 3K ohm, 100 Watts, 1%. Non-Inductive. Aluminum housing with 2 mounting ears. 12-24 threaded stainless steel stud terminals with nickel plated brass nuts.
 L: 3-1/2" Body W: 2-7/8" O/A H: 2-3/4" O/A WT: .8

STOCK #	DESC.	1EA
17868-RS	100W 3K Ohm Resistor	\$9.95

240 WATT ADJ. RESISTORS



Adjustable power resistors rated: 240 Watts, 5% with Adjustable slider tap contact. Use for power supply or audio loads. Solder terminals. No Mtg. Hardware.
 L: 6-1/2" DIA: "1-3/8" WT: .5

STOCK #	DESC.	1EA	10+EA
17443-RS	1.0 Ohm 240W Resistor	\$12.95	\$10.95

FILTER CAP



P.C Mount electrolytic Filter cap rated: 1000uF @ 100VDC. P.C. Mount Snap-in pins. For power supplies, Amps etc.
 Dia: 13/16" H: 1-9/16" WT: .04

STOCK #	DESC.	1EA	300EA
18070-CR	1000uF Filter Cap	\$1.25	\$0.99

MONO CERAMIC CAPS

These small size monolythic ceramic caps are ideal for bypassing, filtering etc. Rated 50V. +-20% Tol.

STOCK #	VAL.	SPACE	1EA	10+EA	100+EA	1000+EA
5625-CM	10p	.1	\$0.22	\$0.12	\$0.09	\$0.06
5626-CM	15p	.1	.22	.12	.09	.06
5627-CM	22p	.1	.22	.12	.09	.06
5628-CM	39p	.1	.22	.12	.09	.06
5629-CM	47p	.1	.22	.12	.09	.06
5630-CM	68p	.1	.22	.12	.09	.06
5631-CM	100p	.1	.22	.12	.09	.06
5632-CM	220p	.1	.22	.12	.09	.06
5633-CM	330p	.1	.22	.12	.09	.06
5634-CM	470p	.1	.22	.12	.09	.06
5635-CM	680p	.1	.22	.12	.09	.06
5636-CM	1000p	.1	.37	.19	.15	.10
5637-CM	2200p	.1	.22	.12	.09	.06
5638-CM	3300p	.1	.22	.12	.09	.06
5639-CM	4700p	.1	.22	.12	.09	.06
5640-CM	6800p	.1	.22	.12	.09	.06
5641-CM	.010u	.1	.23	.12	.09	.06
5642-CM	.022u	.1	.23	.12	.09	.06
5643-CM	.033u	.1	.23	.12	.09	.06
5644-CM	.047u	.1	.23	.12	.09	.06
5645-CM	.056u	.1	.23	.12	.09	.06
2926-CM	.10u	.1	.23	.12	.09	.06
5646-CM	.10u	.2	.28	.15	.11	.08
5647-CM	.22u	.2	.28	.19	.15	.10

120 WATT RESISTORS



Power resistors rated: 120 Watts, 5%. Use for power supply or audio loads. Solder terminals and steel Mtg. brackets
 L: 8-1/2" W: 1-1/4" H: 2-1/2" O/A WT: .5

STOCK #	DESC.	1EA	50+EA
17785-RS	1 Ohm 120W Resistor	\$5.95	\$4.95
17786-RS	2 Ohm 120W Resistor	\$5.95	\$4.95
17787-RS	4 Ohm 120W Resistor	\$5.95	\$4.95
17788-RS	8 Ohm 120W Resistor	\$6.95	\$5.95
17789-RS	16 Ohm 120W Resistor	\$6.95	\$5.95

5 WATT RESISTORS



Ceramic Block, Power resistors rated: 5 Watts, 5%. Use for shunts, ballast resistors etc. 1-1/4" leads
 L: 7/8" W: 3/8" H: 3/8" WT: .01

STOCK #	DESC.	1EA	100+EA
17790-RS	0.1 Ohm 5W Resistor	\$0.35	\$0.29
17791-RS	1.0 Ohm 5W Resistor	\$0.35	\$0.29

1000 WATT RESISTOR



Ohmite Power resistor rated: 775 ohm, 1000 Watts, 5%. Removable jumpers connect resistor to mounting brackets for use on buss bars. Solder terminals and slotted steel Mtg. brackets
 L: 23-1/4" O/A H: 4" O/A W: 2-1/2" O/A WT: 5

STOCK #	DESC.	1EA
17867-RS	Super Power Resistor	\$49.95

PROFESSIONAL MICROPHONE



600 ohm unidirectional dynamic microphone features: DM-68A Dynamic (moving coil) cartridge, black metal wind screen & body, On/Off switch, 15ft. low noise cable. Sensitivity: -74db, Frequency response: 80-12KHz. Cable has XLR female mike connector on one end & a 1/4" phone plug on other end. Includes a storage pouch & 1/4" to 1/8" phone adapter
 L: 7-1/8" Dia: 2" WT: 1.1

STOCK #	DESC.	1EA
17282-MK	Professional Mike	\$9.95

ELECTRONIC ALARM



Electronic alarm operates on 6-18 VDC. Measures 1-5/8" dia & produces a 2900Hz tone. Use as pre-alarm for burglar alarms, or in paging systems, smoke & fire detectors, metal detectors, etc. Tab terminals.
 Dia: 15/16" H: 5/8" WT: .3

STOCK #	DESC.	1EA	5+EA
0188-SU	Electronic Alarm	\$4.95	\$3.95

PIEZO AUDIO TRANSDUCERS



Mallory 2735FPL PC mount piezo annunciators. Rated: 3-28V drive, 88db output max, 3.5KHz resonant frequency. These require an external drive circuit to produce tone.
 Dia: 30mm HT: 10mm+ 6mm standoff WT: .011

STOCK #	DESC.	1EA	10+EA
14470-SU	Piezo Transducer	\$0.95	\$0.89

MINI SPEAKER



ALC P/N GA0571H Mini 8 Ohm/1wATT, 2-1/4" paper cone speaker with alnico magnet. 7" Leads.
 RND: 2-1/4" H: 3/4" WT: .1

STOCK #	DESC.	1EA
17987-SP	2-1/4" Mini Speaker	\$1.95

10" WOOFER



8ohm Impedance, 10" poly-propylene woofer rated: 20oz magnet, Frequency Range: 28Hz-4KHz, 100 peak power, SPL= 89db, resonant freq. =30Hz.

Dia: 10"	WT: 3		
STOCK #	DESC.	1EA	5+EA
6204-SP	10" Poly Woofer	\$20.50	\$16.00

HEADSET & MIC



Headset for use with computers. 32 ohm stereo headset Features Noise canceling electret microphone on adjustable boom, adjustable headband with Foam earpiece. 5ft. cable from headphone to 1/8" plugs.

WT: .32			
STOCK #	DESC.	1EA	25+EA
16799-MK	InChorus Headset	\$4.95	\$3.95

MINI FET MIKE



Mini FET electret mike. Rated 100-7,000 Hz frequency, 2V standard operation voltage and 0.5mA Max current draw. 2" leads to micro connector. Used in phones etc

Dia: 6mm/.23"	T: 3.4mm/.13"	WT: .001
STOCK #	DESC.	1EA
17575-MK	FET Mike/2" leads	\$0.49

RARE EARTH MAGNET

Disc shaped, nickel plated, strong, rare earth magnet.

D: 5/16"	T: 1/8"	WT: .003
STOCK #	DESC.	1EA
16411-MG	5/16" Button Magnet	\$0.49

FERRITE "BUTTON" MAGNET

Uncoated ferrite magnet .7" dia X .2" thick. Medium strength.

Dia: .7"	T: .2"	WT: .013	
STOCK #	DESC.	1EA	25+EA
15470-MG	Mini Round Magnet	\$0.99	\$0.89

RUBBERIZED MINI MAGNETS

Very small rubberized magnet possibly used with hall effect sensors as position sensing. These magnets are only 20mm long X 2mm wide with an adhesive backing. You receive a strip of 100pcs for one low price.

L: 20mm	W: 2mm	T: 1mm	WT: .02
STOCK #	DESC.	1PK	50PK+
14582-MG	100 Rubber Magnets	\$1.00	\$0.50

2-3/4" DIA. RING MAGNET



Strong uncoated ferrite ring magnet with 1-1/4" dia. center hole.

Dia: 2-3/4"	T: 7/16"	WT: .46	
STOCK #	DESC.	1EA	10+EA
15262-MG	Ferrite Donut Magnet	\$1.95	\$1.75

NOISE CANCELING STEREO HEADSET

Noise canceling Stereo headset designed for use with all stereo equipment. 4-1/2ft. ZIP cord with 1/8" (3.5mm) stereo plug on end. 32ohm impedance, 80mW power, 104dB Sensitivity, 20-20KHz response. Silver body with black foam pads and headband.



WT: .13		
STOCK #	DESC.	1EA
17286-SP	Jensen Stereo Headset	\$19.95

HEADSET WITH MIKE

Headset for use with computer sound cards and Corel software for speech recognition. Features Noise canceling electret mic on adjustable boom, adjustable headband with Foam earpiece. 3ft. cables with 1/8" plugs (for sound card), Black Headband



WT: .14			
STOCK #	DESC.	1EA	10+EA
16573-MK	Corel Black Headset	\$1.25	\$0.99

MINI FET MIKE



Mini FET electret mike. Rated 100-7,000 Hz frequency, 2V standard operation voltage and 0.5mA Max current draw. 2" leads to micro connector. Used in phones etc

Dia: 3/16"	T: 1/8"	WT: .001
STOCK #	DESC.	1EA
17448-MK	Mini FET Mike	\$0.49

FERRITE POLE MAGNETS



Pair of Ferrite magnet assemblies each containing 2 trapezoidal magnets between 2 steel plates supported by steel spacers. Each magnet is 1/4" Thick X 5/8" tall X 3/4" wide (max).

L: 2-1/4"	W: 1-1/8"	T: 1/2"	WT: .23
STOCK #	DESC.	1EA	5+EA
11628-MG	Dual Magnet Assembly	\$1.95	\$1.49

RUBBERIZED MAGNET



Rubberized magnet used as part of a cabinet latch. Counter sunk screw holes at each end with a slanted center section with a 1/4" dia. hole for latch pin. Magnet is 1-1/2" X 1/2" wide X 11/32" thick (max).

L: 1-1/2"	W: 1/2"	T: 11/32"	WT: .014
STOCK #	DESC.	1EA	5+EA
11443-MG	RubberMagnet	\$0.40	\$0.29

CABINET MAGNET CATCHES



Southco magnetic latches. Black plastic, snap-in case. 3 Sizes available. NO Strike Plates
Small: 15/16"W X 5/16"T for 7/8 X 1/4" cutout
Medium: 1-1/2"W X 3/8"T for 1-7/16" X 5/16" cutout

WT: Sm: .008/Med: .04			
STOCK #	DESC.	1EA	10+EA
11527-MG	Small Magnet Catch	\$0.30	\$0.25
11528-MG	Medium Magnet Catch	\$0.50	\$0.40

CELL HEADPHONE & MIKE



Small, light weight communication headset for Motorola V3688, V8088, L2000 & P3689 phones. Dynamic earpiece. FET mike in the interconnecting cord. Ideal for hands free operation. 4ft cord with 2.5mm stereo phone plug.

WT: .07			
STOCK #	DESC.	1EA	5+EA
12873-MK	Headphone & Mike	\$4.95	\$4.50

5" WEATHERPROOF SPEAKER

8ohm Impedance, 5in in/out door speaker rated: Frequency Range: 200Hz-15KHz, 20W peak power. White ABS plastic



Dia: 5"	WT: 2		
STOCK #	DESC.	1EA	5+EA
6239-SP	5" Weatherproof Spkr.	\$8.75	\$6.95

MINI 4 OHM SPEAKER

Gento P/N SP99023A, Mini 4 Ohm, 2" paper cone speaker with ferrite magnet.



Sq: 2-1/16"	H: 1-1/2"	WT: .28	
STOCK #	DESC.	1EA	25+EA
14618-SP	Mini Speaker	\$1.49	\$1.25

SHEET MAGNET

Rubberized Rare earth magnet sheet with a white epoxy face. Neodymium, Iron, Boron combination offers very high strength. 7-3/8" Square except the corners are as pictured.



SQ: 7-3/8"	T: .062	WT: .43
STOCK #	DESC.	1EA
18198-MG	Rubberized Magnet Sheet	\$2.95

RARE EARTH DISC MAGNET

Disc shaped, nickel plated, strong, rare earth magnet.



D: 3/8"	T: 1/16"	WT: .002	
STOCK #	DESC.	1EA	10+EA
18097-MG	3/8" Disc Magnet	\$0.39	\$0.25

RARE EARTH MAGNET

Removed from new equipment. Strong rare earth (Neodymium) magnets. Roughly a irregular cube. All have a nickel plating that maybe chipped.



L: 9mm (3/8")	W: 7mm (9/32")	T: 6mm (7/32")	WT: .001
STOCK #	DESC.	1EA	5+EA
14581-MG	Mini R/E Magnet	\$1.95	\$1.49

GIANT MAGNET

Removed from equipment. Large Ferrite magnet appears to be from some type of high power transmitter but we don't know. Epoxy coated.



L: 7-3/16"	W: 2"	T: 2-1/4"	WT: 4.5
STOCK #	DESC.	1EA	5+EA
14032-MG	Large Ferrite Mag	\$17.95	\$14.95

ENCLOSED B/W CAMERA



Ideal for use with Telephoto Lens 12975-LN. 1/3" CCD element with Fixed 3.6mm lens. Scanning 525 lines-60 fields S/N ratio:>46dB, Resolution: 380 TV lines, Sensitivity: .1 lux, Video output : EIA 75 Ohm, 2/1 interlace 1.0V P/P composite video. Metal housing with removable mounting bracket. Auto iris/shutter: 1/60/-1/100,000 sec. Connections: 6ft cable, Video/ RCA Female, Power/ Coaxial. Power 12VDC +/-5V @ 120mA. Sq: 1" W/O bracket" D: 1-3/16" WT: .24

STOCK #	DESC.	1EA	5EA
12985-ST	Enc. B/W Camera	\$45.95	\$39.95

DIGITAL VIDEO RECORDER



4 input color digital video recorder. Functions include: Time & Date Stamp, Repeat, timer, alarm & activity record modes, 4 Alarms In, single NO/NC alarm out. Search by date & time On screen programming. Quad or full screen record modes, 3 video quality modes (High, Normal, Basic). Includes single 120G Hard Drive (Max 2 X 160GB)

Rec. Resolution: 720 X 480 30frames/sec X 4 ch. max Compression: MJPEG
Record Time: (160GB HDD)
72hr @ Hi Res/30FPS, Quad/3400hr @ Basic/1FPS Quad
128hr @ Hi Res/30FPS Full 6600hr @ Basic Res/1FPS Full
Frame Rate: Quad 30/20/15/10/7.5/4/3/2/1
Full: 7.5FPS/Camera (30 total)
HDD: Up to 160 GB
Video Input: 75 Ohm, 1.0V P/P composite video
Video Output: 75 Ohm, 1.0V P/P X 2
Real Time Full screen, Quad
Connectors: 4 video: BNC In/Out
Power: 12VDC 4A (Power Supply included)
W:15-3/8" D: 9-7/8" H: 2" WT: 9

STOCK #	DESC.	1EA
15096-ST	DigitalVideoRecorder	\$495.00

8 INPUT ALARMING SWITCHER



Rugged metal cabinet. Lighted power switch, LED source Indicator. 3 sequencing modes; Auto, Manual, Home. 3 alarm modes: ON: Internal buzzer sounds, video switches to associated input, Alarm relay activates; BUZZER OFF: No buzzer sound, video switches to associated input, alarm relay activates; OFF: no alarm functions. Alarm overrides all sequence modes CE Listed
Impedance: 75 ohm
Isolation in-out: >40dB @ 10MHz
Crosstalk: <-48dB @ 10MHz
Bandwidth: <1Hz to >20MHz -3dB
Tilt: <1%
Phase: better than 3° to 10MHz
Video Gain: Unity
Connections: Video: BNC, Alarm In/Out: Terminal strips
Switching Interval: 1-15 Seconds
Alarm Hold Interval: 3-50 Seconds
Alarm Relay: SPDT Rated 5A @ 250VAC
Power: 120VAC 3 Watts
W: 8-5/8" H: 1-7/8" D: 4-1/2" WT: 2.1

STOCK #	DESC.	1EA	5+EA
15270-ST8	Input Switcher/Alarm	\$139.95	\$132.95

500MM TELEPHOTO LENS



Super long range telephoto lens for CCD type cameras. Features multicoated optics, Aluminum alloy body, min focus distance: 6m. 1/4-20 threaded insert for tripod. Super long range telephoto lens for CCD type cameras. Features Multicoated optics, Aluminum alloy body, 1/4-20 threaded insert for tripod. Objective Lens: 80mm Focal Length: 500mm Min. Focus Distance: 6M (19.7ft.) "F" Number: 8.4:1 Includes: 1.25"/25mm "C" adapter 1.25"/10mm adapter Dust covers Heavy Canvas Bag.

L: 16-1/2" (40cm) Dia: 3-5/8" (80mm) Ship WT: 6.5

STOCK #	DESC.	1EA	2+EA
12975-LN	Telephoto Lens	\$329.00	\$295.95

MOTORIZED CAMERA SCANNER



Motorized scanner unit for security cameras. Supports cameras up to 2kgs. Scans back and forth automatically up to 350deg's. Externally adjustable limit stops. Manually adjustable tilt(90deg.) . 24VAC power. 6in leads. Off white plastic case, metal camera mount. Indoor use only.

L: 2-1/2" W: 1-1/2" H: 2-1/2" WT: .74

STOCK #	DESC.	1EA	5+EA
12984-ST	Scan Head	\$49.95	\$42.95

VIDEO COAX TO UTP CONVERTER



Isolated balun converts video signals using coaxial cable to telcom UTP cable (CAT 3-5). Sends color video up to 1000ft or B/W up to 2000ft. Bandwidth 35Hz to 4.5MHz. Transpedance: 75ohm unbalanced to 100 ohm balanced. Use existing phone wiring to send video. Connects to RJ-45 pins 7&8. 1 needed at each end

L: 2" W: 5/8" H: 7/8" WT: .1

STOCK #	DESC.	1EA	5+EA
12238-ST	BNC-M to RJ-45	\$24.95	\$19.95
12239-ST	BNC-F to RJ-45	\$24.95	\$19.95
12240-ST	"F" Female to RJ-45	\$24.95	\$19.95

"CS" MOUNT CCTV CAMERA LENSES



Fixed 1/3" format CCTV lenses for "CS" mount cameras. Approx. Field of View
2.5mm FOV= 104° 3.6mm FOV= 72°
8mm FOV= 33° 12mm FOV= 22°
16mm FOV= 19°
CS Ring= Adapt 1/3" format lenses for use with "C" mount cameras

WT: .1

STOCK #	DESC.	1EA	5EA
12560-ST	2.5mm F2 Lens	\$34.95	\$29.95
12522-LN	3.6mm F2 Lens	\$34.95	\$29.95
7576-LN	8mm F1.3 Lens	\$39.95	\$35.95
12523-LN	12mm F2 Lens	\$34.95	\$29.95
7577-LN	16mm F1.6 Lens	\$29.95	\$26.95
7469-LN	8mm F1.2/Adj. Iris Lens	\$89.95	\$79.95
11275-ST	"CS" Adapter Ring	\$4.95	\$4.49

CAMERA MOUNTING BRACKETS



Single arm, ceiling or wall mount plastic camera brackets. Arm rotates in base and head tilts. 1/4-20 stud matches most CCTV camera inserts.
H: 6" Wt: .56

STOCK #	DESC.	1EA	5+EA
7476-MI	"B" 6" Bracket Almond	\$14.95	\$10.95
8604-MI	"B" 6" Bracket Black	\$14.95	\$10.95

CABLE SURGE PROTECTOR



In-line limiter protects cable connected equipment. Male "F" to female "F". Switch time <100nS, Max surge=5000A, parallel resistance=10000 Meg. ohms, Switched resistance=near 0 ohms. .2dB insertion loss, Power passive to 50VDC/AC P/P, 36 Vac RMS, 10 A max.

WT: .1

STOCK #	DESC.	1EA	10+EA
4251-TV	Surge Protector	\$4.49	\$3.95

PIR MOTION DETECTORS



PET



VOL.

PIR detector for use in alarm systems. Internal terminal strip for 12V/15mA DC power (9-16VDC), NC alarm contacts & tamper switch. Selectable 1-2 pulse count. Internal red "walk" LED can be disabled. White Plastic case. indoor use.
Pet Safe PIR Detector lens covers area up 45ft X 45ft (90deg. Spread) horizontal fanpattern allowing pets to walk freely under pattern.
Volumetric PIR detector. Wide angle lens covers area up 40ft X 40ft (90deg. horizontal Spread) 3 zone vertical pattern at -5deg, -15 deg. & -35 deg. below horizontal.
T: 4.1" W: 2.4" D: 1.3" WT: .2

STOCK #	DESC.	1EA	30+EA
15840-SC	12VDC PIR Pet Unit	\$8.95	\$6.95
16220-SC	12VDC PIR Vol. Unit	\$8.95	\$6.95

MOTION DETECTOR



Portable mini motion detector. 10 superbrite white LEDs light for approx. 30sec. when motion is detected. Detection range: approx. 10ft+. Requires 3 "AA" cells. (Not supplied). Can be wall mounted or placed on flat surface

SQ.: 3-3/8" T: 1-1/2" WT: .25

STOCK #	DESC.	1EA
17923-MI	Portable Motion Detector	\$11.95

UV MARKING



Unique marking & identifying system. Includes a pen that dispenses a clear, permanent ink visible only under UV light from the mini UV LED Flashlight. Mark documents, pictures, cell phones, I-Pods & other electronics. Prove ownership of lost or stolen items. Uses 3 LR44 coin cells (Included) includes Key/Belt loop chain.

L: 2-1/2" (Light) WT: .24

STOCK #	DESC.	1EA
17936-MI	UV Marking System	\$12.95

THOUSANDS MORE ITEMS ON MPJA.COM

UL LISTED COAX CABLES WITH "F" CONNECTORS

UL listed CATV cables. Convenient lengths of black RG-6 cable. With strain relieved male "F" connectors on both ends. Suitable for commercial installations. 64% braid & 100% foil shield.



STOCK #	DESCRIPTION	WT.	1EA	5+EA
5948-TV	15' UL RG-6 Cable	.7	\$2.99	\$2.49
5949-TV	25' UL RG-6 Cable	1	\$4.25	\$3.95
5950-TV	50' UL RG-6 Cable	2.2	\$7.50	\$6.95
5951-TV	75' UL RG-6 Cable	3.1	\$12.95	\$11.95
5952-TV	100' UL RG-6 Cable	4.2	\$13.95	\$12.95
5953-TV	150' UL RG-6 Cable	6.2	\$19.95	\$18.80

RG-59 COAX CABLES WITH BNC CONNECTORS

Black RG-59 CCTV cables with strain relieved male BNC connectors on both ends. Use to interconnect Cameras, Monitors, Switchers etc.



STOCK #	DESCRIPTION	WT.	1EA	10+EA
8952-CB	3ft. RG-59 Cable/BNC 3		\$3.25	\$2.95
8953-CB	6ft. RG-59 Cable/BNC .6		\$3.85	\$3.49
8954-CB	12ft. RG-59 Cable/BNC 2		\$4.50	\$3.95
8955-CB	25ft. RG-59 Cable/BNC 3		\$5.95	\$5.49
8956-CB	50ft. RG-59 Cable/BNC 4		\$8.95	\$8.49
12386-CB	100ft. RG-59 Cable/BNC 8		\$14.95	\$12.95

PREMIUM A/V CABLES



Premium Stereo audio & composite video cable made with Oxygen free copper wire. Left & Right Stereo cables & video coax. Copper braid & aluminum foil double shielding. 24kt gold plated Red, White & Yellow coded RCA Plugs with metal shells.

STOCK #	DESCRIPTION	WT.	1EA	5+EA
16885-CB	6ft. Prem. A/V Cable	.6	\$29.95	\$27.95
16886-CB	12ft. Prem. A/V Cable	1.1	\$36.95	\$33.95
16887-CB	25ft. Prem. A/V Cable	2.2	\$54.95	\$49.95

STANDARD A/V CABLES



Stereo audio & composite video cable. Left & Right Stereo cables & video coax. Copper braid. Molded strain relief 24kt gold plated Red, White & Yellow coded RCA Plugs.

STOCK #	DESCRIPTION	WT.	1EA	5+EA
16896-CB	3ft. Std. A/V Cable	.2	\$4.95	\$4.49
16897-CB	6ft. Std. A/V Cable	.3	\$5.95	\$5.49
16898-CB	12ft. Std. A/V Cable	.6	\$6.95	\$6.49

6 PORT SPLITTER

5-900MHz hybrid 6 port splitter for antenna/Cable/CATV systems. 10dB isolation, Die-cast housings.



WT: .4

STOCK #	DESC.	1EA	10+EA
5284-TV	6 Port Splitter	\$3.75	\$2.95

AC PLUG TRANSFORMERS

Plug transformers for use with CCTV board cameras and equipment. Standard 2 prong non-polarized input, screw terminal output. White plastic case with safety screw for mounting to outlet. Check equipment specifications for correct power requirements. UL/CSA Listed.



WT: 1.6

STOCK #	DESC.	1EA	12+EA
12635-PA	12VAC 40VA Transf.	\$7.95	\$7.45
14175-PA	16VAC 40VA Transf.	\$7.95	\$7.45
12637-PA	24VAC 40VA Transf.	\$7.95	\$7.45

12V @ 2A DESKTOP SUPPLY

MFG: APD
P/N: DA-24B12
Input: 100-240 VAC 47-63Hz
Output: 12VDC 2A
Specifications/Features: Removed from New Equip. Switching plug supply with overvoltage & current limit protection. IEC 2 line cord connector. 6ft output cord with 5.5mm OD X 2.5mm ID coaxial plug Center +. UL/canada/usa/TUV/CE listed.
MATING POWER CORD STOCK # 15447 CB
L: 3-5/8" W: 2-1/4" H: 1-1/4" WT: .4



STOCK #	DESC.	1EA
15548-PS	12V @ 2A Desktop Supply	\$6.95

MATCHING TRANSFORMERS

75 ohm to 300 ohm matching transformers. 5" 300 ohm twin lead with spade lugs to 75 ohm "F" female



WT: .1

STOCK #	DESC.	1EA	5+EA
4257-TV	Outdoor Transformer	\$0.75	\$0.59

UHF/VHF SPLITTER

UHF/VHF indoor splitter with 75 ohm to 300 transformer on the UHF output. 75 ohm input, 75 ohm VHF output, 300 ohm UHF output. "F" female input, 5" VHF coax with male "F" connector, 5" UHF twin lead with spade lugs.



WT: .1

STOCK #	DESC.	1EA	5+EA
4255-TV	UHF/VHF Splitter	\$1.95	\$1.75

DELUXE COAX A/B SWITCH

A/B Push Button switch, 75 Ohm inputs/output with "F" female connectors.



WT: .4

STOCK #	DESC.	1EA	5+EA
7018-TV	Deluxe A/B Switch	\$5.95	\$4.95

DELUXE COAX A/B/C SWITCH

A/B/C Push Button switch, 75 Ohm inputs/output with "F" female connectors.



WT: .4

STOCK #	DESC.	1EA	5+EA
5282-TV	Deluxe A/B/C Switch	\$11.95	\$8.95

THOUSANDS MORE ITEMS ON MPJA.COM

A/V PATCH CABLES WITH RCA PLUGS

Single & Dual cables for audio/video equipment patching



STOCK #	DESCRIPTION	WT.	1EA	10+EA
4906-TV	6ft. Single Cable	.11	\$1.25	\$0.99
4907-TV	12ft. Single Cable	.18	\$1.95	\$1.75
4903-TV	3ft. Dual Cable	.33	\$1.49	\$1.35
4904-TV	6ft. Dual Cable	.48	\$1.75	\$1.49
4905-TV	12ft. Dual Cable	.52	\$2.49	\$2.25

ATTENUATOR PADS

DC-1GHz Attenuator Pads. 20 Db Return Loss. Male-Female "F" Connectors.



WT: .2

STOCK #	DESC.	1EA	10+EA
5044-TV	3db Pad	\$1.95	\$1.69
5045-TV	6db Pad	\$1.95	\$1.69
5046-TV	10db Pad	\$1.95	\$1.69
5047-TV	12db Pad	\$1.95	\$1.69
5048-TV	17db Pad	\$1.95	\$1.69
5049-TV	20db Pad	\$1.95	\$1.69

75 OHM TERMINATOR

Type "F" male 75 ohm terminator. .5 Watt Max. Used to properly terminate CCTV etc. Drop Lines and Monitors.



WT: .01

STOCK #	DESC.	1EA	10+EA
5456-RC	75 Ohm Terminator	\$0.33	\$0.29

GROUNDING BLOCK

"F-81" connector grounding blocks. Provides a ground connection to shield of coax cable lines etc.



WT: .1

STOCK #	DESC.	1EA	10+EA
5060-TV	One Line Ground Block	\$0.59	\$0.49

WIDEBAND SPLITTERS

5-900MHz hybrid splitters for antenna/Cable/CATV systems. 20dB iso. Die-cast housings.
2 Port Insertion loss: 3.5db all ports
3 Port Insertion loss: port1=3.5 ports 2&3=6.5db
4 Port Insertion loss: 6.5db all ports



WT: .3

STOCK #	DESC.	1EA	5+EA
4247-TV	2 Port Splitter	\$0.98	\$0.79
4248-TV	3 Port Splitter	\$1.35	\$0.99
4249-TV	4 Port Splitter	\$1.65	\$1.25

DC BLOCK

10KHz-1GHz voltage blocking coupler. Blocks & isolates DC & AC power used by in-line or mast mounted amp/pre-amps from entering down side cables to TV's, Converters etc. Male "F" to female "F" Connector.



WT: .2

STOCK #	DESC.	1EA	10+EA
4253-TV	DC Block	\$1.95	\$1.85

COLOR MINI CAMERAS

Small cameras with metal case. Connects to any monitor or VCR with A/V inputs. Extension cable available. **With bracket & power supply.**

Element: 1/4in. Color, CCD
 Lens: Fixed 3.6mm/3.7mm pinhole
 Scanning: EIA 525 lines- 60 fields,
 S/N Ratio: >46dB
 Auto shutter: 1/60-1/100,000 Sec.
 Resolution: 380 TV lines,
 Sensitivity: 2lux. @ F: 2
 Video output: NTSC std.

75 Ohm, 2/1 interlace 1.0V P/P composite video
 Connections: 12" Video & Power leads
 Video: RCA Female, Power: Male Coaxial
 Power: 12VDC +- .5V @ 100mA
 Sq: 1-3/8"W/O bracket D: 1-3/8"max WT: .4



STOCK #	DESC.	1EA	5+EA
14383-ST	3.6mm Clr. Camera	\$99.95	\$89.95
14384-ST	Pinhole Clr. Camera	\$99.95	\$89.95

COLOR WEATHERPROOF CAMERA

Black metal case with removable sun shield. Mounting bracket. Mounting bracket & 12VDC power pack included. Mfg./Model: Pro-Video CVC6700

Element: 1/3" silicon CCD sensor
 Lens: 3.6mm/f1.6
 Scanning: NTSC 525 lines- 60 fields
 S/N Ratio: >46dB
 Auto shutter: 1/60-1/100,000
 Resolution: 380 lines
 Sensitivity: 2 lux

Video output: NTSC std. 75 Ohm, 2/1 interlace
 1.0V P/P composite video
 Connections: 6ft.leads
 Video: RCA Female Power: Male Coaxial

L: 4" W: 1-5/8" H: 1-5/8" WT: 1.36

STOCK #	DESC.	1EA	5EA
12264-ST	Color W'proof Camera	\$199.95	\$189.95



B/W WEATHERPROOF CAMERA

Weatherproof 1/3in. CCD black/white bullet camera with 4.3mm lens. Auto Iris/ shutter, 380 lines Resolution. .1lux. Sensitivity. EIA std., 1.0V P/P composite video output. 12" leads with RCA connector for video & coaxial connector for power (9VDC @100mA) Plastic housing with 1/4-20 threaded insert in back. Includes wall mounting bracket & Power Pac. Connects to any monitor or VCR with A/V inputs. L: 2-7/16" DIA: 13/16" WT: .27

STOCK #	DESC.	1EA	5EA
11612-ST	B/W Weather Camera	\$89.95	\$79.95



3 CHANNEL UHF A/V MODULATOR

VMP model MOD3 modulator with 3 digit LED channel display, Push button channel selection. 3 channel UHF Modulator for adding your VCR, DVD, security camera, etc. to unused cable channels. Output: Selectable UHF 14-83 OR Ultraband 65-139. RF: +14db 75 ohm, NTSC compatible. Input (each channel) 1V/P audio & Video. Connectors: Cable: "F" female 75 Ohm. A/V: Each Channel, RCA Females 2 for stereo Audio & 1 for Video.

W: 8" D: 6" H: 2" WT: 2.1

STOCK #	DESC.	1EA	2EA
11536-ST	3 Ch. Modulator	\$149.95	\$129.95

DIGITAL SPOTTING SCOPE/CAMERA & AUTO TRACKER

ACUTER Digital 70 spotting scope set includes:

Weather resistant 70mm Optical Scope with Integrated 3.1M Pixel Camera
 Programmable Auto Tracker mount
 Heavy Duty Aluminum Tripod
Optical Scope:
 70mm fully coated Refractor Lens 14X magnification
 210mm focal length, 15ft. near focus
 4deg. Anglar FOV
 210ft. @ 1000yds. linear FOV
 13mm eye piece

Digital camera: integrated into Optical Scope
 3.1 megapixel CMOS element
 2" color LCD screen
 32MB internal memory/ Slot for SD Card
 38 Hi Res pics.(3MP)/600 Lo Res. Pic. (.3MP)
 7X @ low Mag./24X@High Mag.
 Low Mag. uses built in Lens
 High Mag. uses Optical Scope

6X digital Zoom
 5.6deg. Anglar FOV Low Mag./2deg. High Mag.
 On Screen Focus Meter
 Auto exposure
 NTSC/PAL TV Preview Output.
 USB Output (Mini-B jack)
 12VDC External Power jack (4.0/1.7mm Ctr. +)
 2 X "AA" batteries required. (Not Inc.)

Auto Tracker:
 6 Programmable "GOTO" positions
 Astronomical or Terrestrial use.
 Wired remote control
 Auto Tracking for Astronomical uses.
 1/4-20 Camera mount
 8 X "AA" batteries required (Not inc.)
 12VDC External Power in jack (5.5/2.5mm Ctr.+)
 12VDC Output Jack to power Camera

Tripod: Fully Adjustable
 21in. collapsed/56in. max extension
 3/8" threaded mount for Tracker
 Includes Camera case, Manuals, USB Driver CD, PC CD with Messier & Caldwell star charts, Win98-P software for learning about the sky, planets & styars. Allows import of pictures/video from Camera.



Ship. WT: 22.5

STOCK #	DESC.	1EA
17367-MI	Digital Spotting Scope	\$499.95

PRO BLACK & WHITE SECURITY CAMERA

1/3" silicon CCD, metal cased camera with connection for auto iris lens. C or CS (with adaptor) lens mount. Scanning: EIA 525 lines- 60 fields, .1 lux/F1.4 sensitivity. Auto shutter: 1/60-1/10,000sec with Auto Iris: Switch & 4pin connector. >380 line resolution. 75 Ohm, 2/1 interlace, 1.0V P/P composite video, S/N Ratio: >46dB. BNC jack for video out, Coaxial jack for power. Requires 12VDC @ 170mA. Connects to any monitor or VCR with A/V inputs. **Plug power pac supplied. Lens Not Included**
 L: 4" W: 2" H: 2" WT: 2



STOCK #	DESC.	1EA	5EA
14363-ST	Pro Security Camera	\$79.95	\$74.95

ENCLOSED B/W CAMERA

1/3" CCD, Fixed 3.6mm pinhole lens. Scanning 525 lines-60 feilds S/N ratio:>35dB, Resolution: 400 TV lines, Sensitivity: .1 lux @ F:1.2, Video output : EIA 75 Ohm, 2/1 interlace 1.0V P/P composite video. Metal housing with removable mounting bracket. Auto iris/ shutter: 1/60-1/100,000 sec. Connections: 18" leads Video/ RCA Female, Power/ Coaxial. Power 12Vdc +- 1V @ 120mA. Plug supply included.
 Sq: 1" W/O bracket" D: 9/16" WT: .17



STOCK #	DESC.	1EA	5EA
12018-ST	Enc. B/W Camera	\$59.95	\$54.95

BACKUP CAMERA SYSTEM

2.4GHz, Wireless back-up system features a 7in. Wide screen color LCD multi-function monitor & Wireless camera that mounts on license plate. Monitor mounts on Visor, or Dash. 110deg. viewing angle, Objects visible from 3ft. and beyond. Ideal; for Trucks, Cars, & RVs. Day & nite operation, Regular or Reversed view (Left/right switch as well as Up/Down. Monitor as A/V inputs for use with DVD Players, Video games etc. Includes cables.

WT: 2.3

STOCK #	DESC.	1EA
18008-ST	Back-Up Camera System	\$99.99



MINI B/W CAMERA WITH I/R LEDS

1/3in. CCD black/white board camera with 3.6mm lens. Field of view: 71° Horiz.; 53° Vert. Auto Iris/ shutter, 430 lines Resolution. .1lux. Sensitivity. EIA std., 1.0V P/P composite video output. 6in. wire leads with RCA jack for video & 5.5/2.1mm coaxial power (12VDC +-1V @120mA) I/R LEDs allows camera to "see" up to 5ft in total dark. Connects to any monitor or VCR with A/V inputs.
 L:1-11/16" W:1-11/16" D:1-1/4" WT: .1

STOCK #	DESC.	1EA	5EA
11691-ST	I/R LED Camera	\$49.95	\$45.95



B/W MINI CAMERAS WITH AUDIO

Small cameras with metal case. Connects to any monitor or VCR with A/V inputs. Extension cable available. **With bracket & power supply.**

Element: 1/3in. Monochrome, CCD
 Lens: Fixed 3.6mm/3.7mm pinhole
 Scanning: EIA 525 lines- 60 fields
 Auto shutter: 1/60-1/100,000 Sec.
 S/N Ratio: >46dB
 Resolution: 380 TV lines
 Illumination: Ambient light
 Sensitivity: .1lux. @ F: 2
 Power: 12VDC +- .5V @ 110mA
 Video output: EIA std.
 75 Ohm, 2/1 interlace 1.0V P/P composite video
 Audio: 2V P/P max
 Connections: 12" Video, audio & Power leads
 Video/Audio: RCA Female Power: Male Coaxial

Sq: 1-3/16"W/O bracket D: 1-3/16"max WT: .4

STOCK #	DESC.	1EA	5+EA
14248-ST	3.6mm Clr. Camera/Audio	\$49.95	\$44.95
14249-ST	Pinhole Clr. Camera/Audio	\$49.95	\$44.95



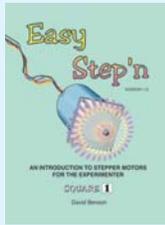
CAMERA VIDEO/POWER CABLE

Siamese cable for cameras. Cable splits out 8" from ends into a video cable with a BNC male on one end and a RCA male on other and a power cable with a 2.1mm I/D coaxial power Plug on end (same end as video RCA) and a 2.5mm I/D power Jack on other. Includes a BNC Male to RCA Female adapter.

STOCK #	DESC.	WT.	1EA
15460-WI	25ft. Camera Cable	0.6	\$6.95
15461-WI	50ft. Camera Cable	1.8	\$9.95
15462-WI	100ft. Camera Cable	3.4	\$17.95
15463-WI	150ft. Camera Cable	4.9	\$20.95



STEP MOTOR REFERENCE BOOK



"EASY STEP'N from Square -1. is a hands on 200+ pg, soft cover introduction to stepper motors for the experimenter. Covers how to determine motor electrical/mech. specs, build elect. & mech test equipment, learn to design & build microcontroller based systems (includes flow charts & code examples), Design & build drivers

H:11"	W: 8-1/2"	T: 7/8"	WT: 1
STOCK #	DESC.	1EA	5+EA
12953-BK	"Easy Step'n" Book	\$34.00	\$29.95

MICRO CONTROLLER REFERENCE BOOK



"Easy Microcontrol'n" from Square-1. latest revision, 179pg, soft cover, beginners guide to using Microchip's PIC ucontrollers. Covers: Program-ming techniques, tables, addressing, sequencing, interrupts & more. Sections on writing source code, using a text editor & an assembler, timing & counting, interfacing & use of programmers. With examples & experiments.

H:11"	W: 8-1/2"	T: 7/16"	WT: 1
STOCK #	DESC.	1EA	5+EA
15795-BK	"Easy Microcontrol'n"	\$34.95	\$32.95

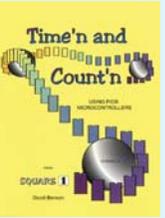
MICROCONTROL'N APPLICATION REFERENCE



"Microcontrol'n Apps" from Square-1. 457pg, soft cover, expanded intermediate guide to using PIC ucontrollers. Covers: Use of 93C46 EEPROM, A/D & D/A conversion, signal conditioning, scanning, binary math, LCDs & many other applications.

H:11"	W: 8-1/2"	T: 1-3/16"	WT: 2.7
STOCK #	DESC.	1EA	5+EA
14412-BK	"Microcontrol'n Apps"	\$49.00	\$46.95

TIMING & COUNTING REFERENCE



"Time'n & Count'n" from Square-1. 218pg. soft cover, application guide to using 16 bit timing & counting. Learn to use TMR1 with it's capture, compare & pulse width modulation (PMW) modes. Techniques shown are useful for generating time intervals, period & frequency. PMW & measuring

H:11"	W: 8-1/2"	T: 1"	WT: 1
STOCK #	DESC.	1EA	5+EA
14409-BK	Time'n-Count'n Book	\$34.00	\$29.95

SERIAL COMM. REFERENCE BOOK



"Serial Communications" Revised edition of "Serial PIC'n. from Square -1. 566 pg, soft cover guide that details various methods for serial communication between Microchip's PIC microcontrollers & external devices. RS-232, Asynchronous serial communication. Synchronous communication including I2C, SPI, and Microwire protocols, are explained. Many code examples are included as modules which will provide a basis for your PIC apps.

H:11"	W: 8-1/2"	T: 1-1/2"	WT: 3.6
STOCK #	DESC.	1EA	5+EA
14410-BK	"Serial Comm." Book	\$49.00	\$39.95

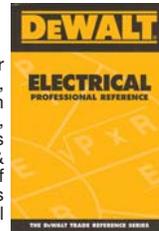
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New edition. Pocket PC REF, 1000+ pages of hard to find info. on PC & compatible computers. Contains: DOS command ref. thru 6.22, Windows 2K, XP & UNIX command ref. Error codes, I/O, USB, Power connector pin outs, ASCII codes, Scan codes, Video standards, Printer control codes, Hard, Floppy, Optical, Tape & CD Drive specs. CPU discriptions. Memory Map & Industry phone book.

H: 6"	W: 4"	T: 1-1/4"	WT: .9
STOCK #	DESC.	1EA	5+EA
4595-BK	Pocket PC Reference	\$14.95	\$12.95

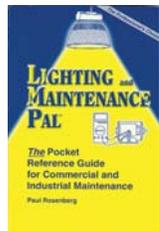
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New revised, 366 pg, soft cover reference book. Covers: formulas, electronic & plansymbols, conversion factors, raceway & wiring, telephone, fiber optics, single & 3 phase motors & transformers, lighting, Tools & materials. Includes a toll free #s of electrical suppliers. Tremendous value to plant, marine or general electrician.

H: 6"	W: 4"	T: .75"	WT: .5
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9229-BK	Electrical Pocket Ref.	\$15.95	\$15.25

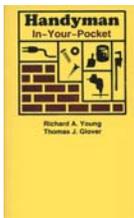
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H: 6"	W: 4"	T: .75"	WT: .5
STOCK #	DESC.	1EA	5+EA
15094-BK	Lighting Pocket Ref.	\$19.95	\$17.85

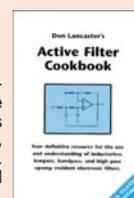
"HANDYMAN IN YOUR POCKET" REFERENCE BOOK



Pocket reference book for contractors, builders, craftsmen, handyman or any do-it-yourselfer. 768 pages of hard to find info. on: Anchors, belts, pulleys, bolts, nails, staples, screws, pipe, conduit, fittings, glues & adhesives, paints, solvents, rafter length/span/pitch, weight & properties of materials, welding, tools, math tables, much more than we can list here.

H: 5.4"	W: 3.2"	T: .9"	WT: .43
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7245-BK	Active Filter Book	\$19.95	\$18.95

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H: 5.4"	W: 3.2"	T: .9"	WT: .5
STOCK #	DESC.	1EA	5+EA
14215-BK	Pocket Reference III	\$12.95	\$11.95

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11211-BK	Electronics Ref.	\$24.95	\$21.95

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Pocket WinRef, 576 pages of Windows^R 95/98 info. Covers: Tips & tricks, Commands & Features arranged alphabetically, Topic lists grouped by subject, List of commonly used file extensions & discriptions. Includes Quickeys™ section for keystroke sequences, Glossary of Windows terms, and a comprehensive index.

H: 5.4"	W: 3.2"	T: .4"	WT: .22
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12589-BK	Win Pocket Ref.	\$9.95	\$9.25

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STOCK #	DESC.	1EA	5+EA
8766-BK	PC Tech Book	\$29.95	\$28.95

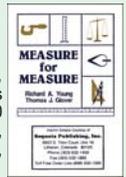
"SOUND RECORDING ADVICE"



336pg. book is a thorough yet simplified guide on how to set up a home recording studio. Written to help overcome the steep learning curve and covers all aspects of recording including: power, grounding, acoustics, layout, buying equipment and much more.

H: 9"	W: 6"	WT: 1.1	
STOCK #	DESC.	1EA	5+EA
14385-BK	Sound Studio Book	\$19.95	\$18.95

CONVERSION REFERENCE MANUAL



"Measure for Measure" New 860+ pgs, soft cover reference handbook . Covers over 39000 conversions for over 5100 different units. Designed for engineers, technicians, teachers, scientists, students and maintenance personnel.

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STOCK #	DESC.	1EA	5+EA
14476-BK	Conversion Ref.	\$14.95	\$13.95

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3	\$8.40	\$9.27	\$10.12	\$10.46	\$11.19	\$11.52	\$12.35	
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8	\$10.13	\$10.64	\$11.82	\$12.45	\$13.34	\$14.17	\$15.74	
9	\$10.40	\$10.94	\$12.02	\$12.75	\$13.64	\$14.90	\$16.73	
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11	\$11.09	\$11.49	\$12.44	\$13.36	\$14.73	\$17.03	\$19.04	
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UL MINI TOGGLE SWITCH

UL Listed Mini toggle switch, Mounts in a 1/4" hole with Solder tabs. Rated 5 Amps @ 125VAC.



WT: .02

STOCK #	STYLE	DESC.	1EA	100+EA
5006-SW	SPDT	On-None-On	\$0.35	\$0.27
16071-SW	SPDT	On-None-(Mom)	\$0.58	\$0.44
5010-SW	SPDT	On-Off-On	\$0.38	\$0.29
5009-SW	SPDT	(Mom)-Off-(Mom)	\$0.58	\$0.44
16072-SW	SPDT	On-Off-(Mom)	\$0.58	\$0.44
5011-SW	DPDT	On-None-On	\$0.41	\$0.30
16073-SW	DPDT	On-None-(Mom)	\$0.69	\$0.52
5014-SW	DPDT	On-Off-On	\$0.46	\$0.35
16074-SW	DPDT	On-Off-(Mom)	\$0.69	\$0.52
5016-SW	DPDT	(Mom)-Off-(Mom)	\$0.69	\$0.52

ADHEASIVE LINED SHRINK TUBING

4ft. long black, adhesive lined shrink tubing .03" Heavy wall Polyolefin 1-5/8in dia. before shrinking, 2X min shrink ratio. Rated 125deg. " C", 600V.

MORE PGS 66

STOCK #	DESC.	1EA
18199-HS	1-5/8" Black Heat Shrink	\$2.99

MULTI FUNCTION PANEL METER

Compact, Auto polarity, 3-1/2 Digit, 1/2" character height, reflective LCD panel meter with black plastic bezel & face plate. Adj. decimal point, .8% accuracy (1% AC). >100Mohm input imp. Chip On Board design for economy & compactness. For battery powered monitoring or test equipment.



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RANGES: (jumper selected)
ADC: 200mA VAC: 200V/500V
VDC: 200mV/2V/20V/200V/500V
Selectable Power: 9VDC (Isolated power) or 5VDC (input & power can share common Ground)

MORE PGS 52,53

STOCK #	DESC.	1EA	15+EA
16177-ME	Multi.LCD Panel Meter	\$8.95	\$8.40

12V G-4 BI-PIN LED LAMPS

MORE PG 69

Bi-pin bulb replacement assembly features 14 super brite White LEDs. 12VAC or DC operation, 40mA current, 15deg. beam angle, Intensity: 8,000-11,000mCd/LED. Replacement for most G-4 lamps. .9mm dia. X 8mm Steel Pins, plastic body.



STOCK #	DESC.	1EA	10+EA
17356-OP	White LED Bi-Pin Lamp	\$8.95	\$6.95

12V @ .5A PLUG SUPPLY

MORE PG 12

P/N: AD-41120600
Input: 120 VAC 60Hz
Output: 12VDC @ 500mA
Unregulated Plug supply, nonpolarized 2 blade input, 6ft output cord with 3.5mm OD X 1.4mm ID coaxial plug Center +. UL/canada/usa Listed.



STOCK #	DESC.	1EA	40+EA
17972-PD	12V/.5A Plug Supply	\$1.25	\$0.99

2W SUPERBRIGHT FLASHLIGHT

MORE PGS 24,25



Heavy Duty Flashlight with a single 2W CREE White super bright white LED Rated 70Lumens. Black, water resistant machined aluminum case. Fixed focus lens & reflector. Requires 2 "AA" cells (Not supplied). Alternate action push button switch on back. Includes belt pouch.

STOCK #	DESC.	1+EA
17912-TL	Heavy Duty 2W LED Flashlight	\$14.00



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FULL SIZE TOGGLE SAFETY COVERS

Plastic, Snap action safety covers for standard (1/2" Dia.) sized toggle switches. Cover must be opened to activate switch. Closing cover forces switch to original position.

STOCK #	DESC.	1EA	10+EA
16100-SW	Red Safety Cover	\$0.53	\$0.46
16101-SW	Green Safety Cover	\$0.53	\$0.46
16102-SW	Blue Safety Cover	\$0.53	\$0.46
16103-SW	Yellow Safety Cover	\$0.53	\$0.46
16104-SW	Purple Safety Cover	\$0.53	\$0.46
16105-SW	Black Safety Cover	\$0.53	\$0.46
16106-SW	Clear Safety Cover	\$0.53	\$0.46
16107-SW	Chrome Safety Cover	\$0.53	\$0.46

120 WATT RESISTORS



Power resistors rated: 120 Watts, 5%. Use for power supply or audio loads. Solder terminals and steel Mtg. brackets

L: 8-1/2" W: 1-1/4" H: 2-1/2" O/A WT: .5

STOCK #	DESC.	1EA	50+EA
17785-RS	1 Ohm 120W Resistor	\$5.95	\$4.95
17786-RS	2 Ohm 120W Resistor	\$5.95	\$4.95
17787-RS	4 Ohm 120W Resistor	\$5.95	\$4.95
17788-RS	8 Ohm 120W Resistor	\$6.95	\$5.95
17789-RS	16 Ohm 120W Resistor	\$6.95	\$5.95

SUPER BRITE WHITE LED

MORE PGS 69,70

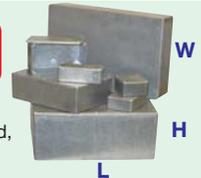


5mm (T1-3/4) LED. Transparent, Non diffused case. 10000mcd Typ. output. Max forward current 20mA continuous. Max Forward Drop: 3.2V. Max reverse Voltage =5VDC. 1" leads

STOCK #	DESC.	1EA	10+EA
17145-OP	White 5mm LED	\$0.34	\$0.25

DIE CAST ALUMINUM BOXES

MORE CASES 56-58



ADC12 Aluminum alloy, Cover & M3.5 Screws included, Natural Bare Aluminum Finish

STOCK #	L"	W"	H"	WT.	1EA
16281-BX	2.36	2.17	1.18	.18	\$3.60
16282-BX	3.15	2.17	0.98	.2	\$3.90
16283-BX	3.50	1.37	1.18	.16	\$3.54
16284-BX	4.49	2.52	1.18	.28	\$5.34
16285-BX	4.49	2.52	2.17	.36	\$6.54
16286-BX	4.49	3.50	2.17	1.30	\$8.01
16287-BX	4.72	3.94	1.38	.56	\$7.77
16288-BX	5.51	3.94	2.95	.86	\$11.22
16289-BX	6.50	5.00	2.95	1.12	\$14.79
16290-BX	6.73	4.76	2.17	.96	\$13.41
16291-BX	6.73	4.76	4.17	1.40	\$16.62
16292-BX	8.74	5.75	2.17	1.44	\$17.91
16293-BX	8.74	5.75	4.17	1.94	\$24.27
16294-BX	9.84	9.84	3.94	3.50	\$44.88
16295-BX	10.83	6.89	2.56	2.08	\$26.91

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2KVA ADJUSTABLE AUTOTRANSFORMER

Input: 110 VAC 50/60Hz
Output: 0-130V@ 2KVA (15A)
Specifications/Features: Enclosed, non-isolated, Adjustable transformer Features: Output Volt Meter, lighted Switch, 20A fuse & single 3 blade outlet.



STOCK #	DESC.	1EA	6+EA
15163-TR	2KVA Adj. Transformer	\$104.95	\$93.59

24 VDC GEARMOTOR

MORE PGS 44-48

MFG: MOLON
P/N: CHM-2435-1
Voltage: 24VDC
RPM: 45
Reversible DC gearhead motor with 5/16" dia X 5/8" long steel shaft. Mounted on shaft is 4-7/8" dia. plastic wheel with "O" ring in wheel rim for use as friction drive. 45RPM/50mA @24VDC No Load; 1A/ 7.5in-lb torque @ Stall. 7in. leads.



STOCK #	DESC.	1EA	10+EA
17971-MD	24VDC Gear Motor	\$9.95	\$8.95