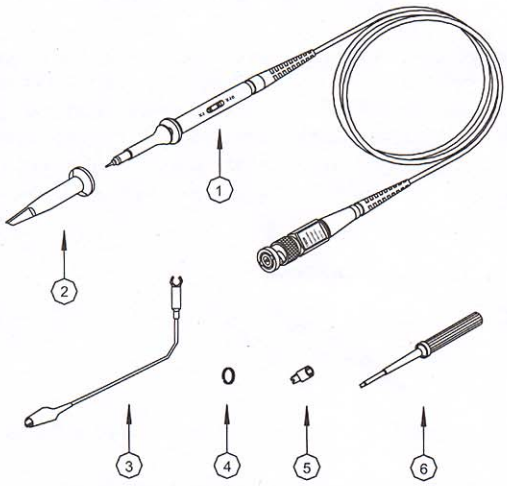
M5000 Series Probe Assembly Drawing



Part Exposition :

1. Probe Rod
2. Probe Tip
3. Ground Lead
4. Marker Ring
5. Tip Locating Sleeve
6. Adjustment Tool

Note: Contents of this document are subject to change without notice.

CE
IEC61010-031

Instructions

M5040 40MHz

MUELLER

Specifications

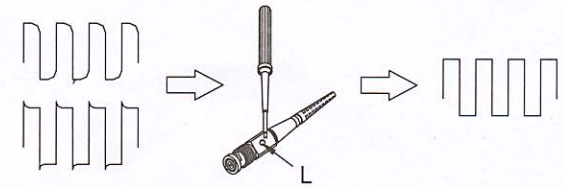
These characteristics apply to a M5000 series probe installed on a specified oscilloscope.When used with another instrument, the oscilloscope must have an input impedance of 1MΩ. The instrument must have a warm-up period of at least 20 minutes and be in an environment that does not exceed the limits.

Item	M5040
Attenuation	X1 ; X10
Input Resistance	1MΩ/10MΩ
Input Capacitance	X1: 85pF~115pF X10: 18.5pF~22.5pF
Compensation Range	25pF~45pF
System Bandwidth	X1: DC~6MHz X10: DC~40MHz
Maximum Working Input Voltage	X1: <200VDC+Peak AC X10: <600VDC+Peak AC
Net Weight	<55g
Cable Length	120cm
Temperature Operating Non operating	-10℃~+50℃ -20℃~+75℃
Humidity	≤85% (Relative Humidity)

Maintenance

Low-Frequency probe Compensation

Before taking any measurements using a probe,first check the compensation of the probe and adjust it to match the channel inputs.Most oscilloscopes have a square wave reference signal available at a terminal on the front panel used to compensate the probe.Connect the probe to the signal source to display a 1KHz test signal on your oscilloscope.Set the probe to X10 position.



Adjust trimmer **L** until seeing flat-top square wave on the display.

Maximum Working Voltage Derating Curve
(VDC+Peak AC)