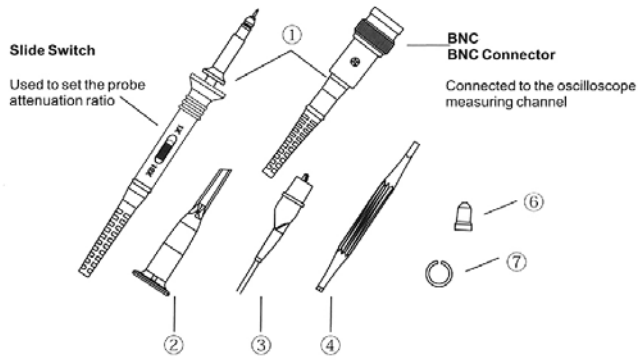


Accessories and Features

Provided with several accessories designed to make probing and measurement simpler. Please review the following instructions carefully in order to use the product properly.



Accessory Kit			
NO.	Name	Description	Quantity
			Probe Kit
①	Probe		1
②	Hook Tip	Indicates a retractable hook tip.	1
③	Ground Alligator Clip	Ensures the safe grounding of the Probe for safe operation and correct signal reading	1
④	Adjustment Tool	Adjusts the probe compensation.	1
⑤	Insulation Cap	Covers the exposed metal part of the probe head to avoid electricity leakage and protect the users.	2
⑦	Maker Rings	(yellow, pink, blue or green) random selection Attaches itself to the probe cable to identify probes used in different channels.	4 rings 2 colors

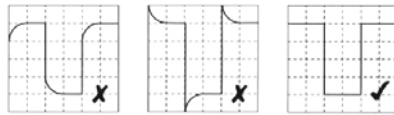
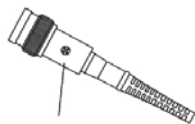


1X & 10X Oscilloscope Probe

To Adjust the Probe Compensation

Frequency Compensation

Before taking any measurement using a probe, first check the frequency compensation of the probe and adjust it to match the oscilloscope used. Generally, the oscilloscope provides a calibration signal output terminal at the front panel. Connect the probe (set the probe attenuation to 10X) to the signal output terminal to display a square waveform on the oscilloscope. Insert the adjustment tool into the compensation adjustment hole at the probe bottom and rotate it clockwise/counterclockwise until the properly compensated square waveform is displayed (flat-top square waveform).



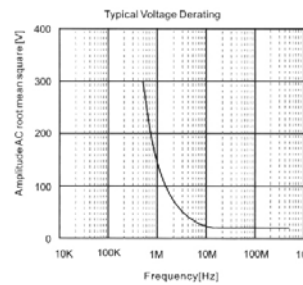
Compensation Adjustment Hole Undercompensated Overcompensated Properly Compensated

Probe Specifications

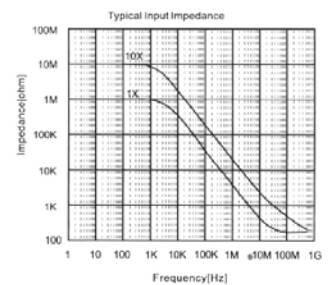
Electrical Specifications						
Bandwidth	20MHz	40MHz	60MHz	100MHz	150MHz	200MHz
Rise Time	17.5ns	8.75ns	5.8ns	3.5ns	2.3ns	1.75ns
Input Capacitance	1X: 70 pF ~ 120 pF					
	10X: 14 pF ~ 18 pF			10X: 13 pF ~ 17 pF		
Compensation Range	15pF ~ 45 pF			10 pF ~ 35 pF		
Resistive Input	1MΩ / 10MΩ ±2%					
Attenuation Ratio	10:1 or 1:1 Switchable					
Max. Rated Input Voltage	1X: 150V _{RMS} CAT II			10X: 300V _{RMS} CAT II		
Mechanical Characteristics						
Weight (Probe only)	About 55 g					
Cable Length	110 ± 2 cm					
Probe Tip Diameter	4.8 mm					
Environmental Specifications						
Temperature	Operating: 0°C to +50°C					
	Nonoperating: -20°C to +70°C					
Altitude	Operating: 2,000 m					
	Nonoperating: 15,000 m					
Max. Relative Humidity	80% relative humidity for temperature up to +31°C, decreasing linearly to 40% relative humidity at +50°C					

User's Guide

Voltage Derating



Input Impedance



CAT II IEC measurement category II is for measurements performed on circuits directly connected to low voltage installations. Examples are measurements on household appliances, portable tools and similar equipment.

- Equipment fully protected by DOUBLE INSULATION or REINFORCED INSULATION.
- Review this user manual carefully to avoid any personal injury or damage to this product and any product connected to it. To avoid potential hazards, use this product only as specified.
- The measurement category of a combination of a PROBE ASSEMBLY and an accessory (an auxiliary to the measurement) is the lower of the measurement categories of The PROBE ASSEMBLY and of the accessory.
- Follow the instructions to use the PROBE ASSEMBLY properly, the improper use of the PROBE ASSEMBLY will impair or ruin its self-owned protection function.