Technical Data Sheet

Differential Probe For Power Measurement- Model 4235

The 4235 meets EN61010 Category III requirements and is capable of making measurements of floating signals in power electronic circuits with +1% accuracy.

Features
-High Accuracy +1%
-Best CMRR in Power Measurement Probes
-Smallest Size
-Safety Certified

Applications
-Precise Power Semiconductor Device Measurement
-Switching Power Supply Design
-Precise Measurement of Power Converter
-Precise Measurement of Motor Drive

Included
-Black Storage Box
-Red & Black Sprung Hooks
-Calibration Certificate
-9 VDC Adapter

Model 4235 Specifications

Bandwidth	DC to 50 MHz(-3dB)
Attenuation Ratio	1/10
Accuracy	+/-1%
Rise Time	<7ns
Input Impedance	1.6 Mohm/7pF each side to ground
Input Voltage * -Category -Differential Input Voltage -Common Mode Voltage -Absolute Max. Voltage (Each side to ground)	 CAT l +/-70V(DC + Peak AC) 600Vrms and +/-700V (DC+Peak AC) 600Vrms and +/-700V (DC+Peak AC)
Output Voltage -Swing (into 50 kOhm load) -Offset (typical) -Noise (typical) -Source Impedance (typical)	 +/-7V <+/-2mV 0.7mVrms 50 Ohm (for using 1Mohm input system oscilloscope)
CMRR (typical)	-90dB @ 60 Hz, -60dB @ 1 Mhz
Ambient Operating Temperature	-10 to 40 degree centigrade
Ambient Storage Temperature	-30 to 70 degree centigrade
Ambient Operating Humidity	Up to 85% RH
Ambient Storage Humidity	Up to 85% RH
Length of BNC Cable	49"
Length of Input Leads	20"
Power Requirement Options**	Included 9VDC adapter, (Optional- Power leads or Removable battery pack uses 4ea. AA cells)
Weight Dimensions	(LxWxH) 0.4 lb4 1/2" x 1" x 1/2"

*Voltage limit is the lesser of the DC+Peak AC and RMS values.
** a. The supplied voltage must be less than 16V and greater than 3.3V, or the probe could be damaged or will not operate properly.
b. For wrong polarity of power sources, a built-in circuit will protect the probe and no danger or damage will occur.
c. When the voltage of the cells become too low, the power indicator on the panel will dim and then distinguish