



Technical Data Sheet

Differential Probe for Power Management- Model 4234

The 4234 meets EN61010 Category III Requirements. With wide choice of attenuation ratio, the 4234 is capable of making full range (from millivolts to $\pm 1400V$) measurements of floating signals in power electronic circuits.

Features

- Bandwidth up to 100 MHz
- Up to $\pm 1400V$ (DC+Peak AC) Differential and Common Mode
- Safety Certified Applications
- Switching Power Supply Design
- Motor Drive Design
- Electronic Ballast Design
- CRT Display Design

Included

- Black Storage Box
- Red & Black Sprung Hooks
- Calibration Certificate
- 4ea AA Batteries
- 9 VDC Adapter



Model 4234 Specifications

Bandwidth	DC-100MHz (-3dB)
Attenuation	1:100/1000
Rise Time	3.5 ns
Accuracy	+/- 2%
Input Impedance	4 M Ohm //7pF each side to ground
Input Voltage -Category -Differential Range -Common Mode Range -Absolute Max. Voltage(Differential Or Common Mode)	CAT III 140 Vrms and +/-140V(DC +Peak AC) @ 1/100 1000Vrms and +/-1400V(DC + Peak AC @1/1000 1000Vrms and +/-1400V(DC + Peak AC)@1/100 & 1/1000 1000Vrms and +/-1400V(DC +Peak AC)@1/100 & 1/1000
Output Voltage -Swing -Offset (typical) -Noise(typical) -Source Impedance (typical)	+/-7V (into 50kohm load) <+5mV 0.9m Vrms 50 Ohm(for using 1 Mohm input system oscilloscope)
CMMR (typical)	-80dB @650Hz, -50dB @ 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 Input Leads	12"
Length of BNC Cable	37"
Power Requirements*	Standard 4 x AA cells or 9VDC Adapter (Both Included) Options-Power Leads
Weight	0.9 lb
Dimensions	(LxWxH) 8" x 3 1/4" x 1 1/2"

Voltage limit is the lesser of the DC+Peak AC and RMS values 1000Vrms and + 1400V(DC + Peak AC) @1/100 & 1/1000

* a. The supplied voltage must be less than 12V and greater than 4.4V, otherwise the probe could be damaged or can't be operated properly.

b. polarity is "+" inside and "-" outside. For wrong polarity, built-in circuit protects the probe, no danger or damage will occur.

c. When the voltage of the cells become too low, the power indicator on the panel will flicker

Probe Master Inc. 215 Denny Way, El Cajon, CA. 92020 USA

www.probemaster.com