

High Voltage Differential Probe multicomp^{PRO}

RoHS
Compliant



Features

- This probe adopts the differential input mode. It's mainly used in places that need high voltage isolation measurement.
- This high voltage differential probe has two options of attenuation, 1:50 and 1:500. The differential mode measurement range is 130V (DC + peak AC) and 1300V (DC + peak AC).
- This probe has over range warning function, indicated by red LED light.
- This probe has small and nice appearance, firm and durable structure, good stability, reliability and accuracy.

Specifications

Electrical Specification

Bandwidth (-3 dB)	: 100 MHz
Rise Time	: ≤ 3.5 ns
Accuracy	: $\pm 2\%$
Attenuation	: 50X / 500X
Input Resistance (Between each input and ground)	: $4\text{ M}\Omega \pm 1\%$
Input Resistance (Between inputs)	: $8\text{ M}\Omega \pm 1\%$
Input Capacitance (Between each input and ground)	: ≤ 8 pF
Input Capacitance (Between inputs)	: ≤ 4 pF
Max. Measurable Differential Voltage (DC + peak AC)	: 50X: ± 130 V / 500X: ± 1300 V
Differential Overvoltage Detection Level (DC + peak AC)	: 50X: ≥ 130 V / 500X: ≥ 1300 V
Linearity	: $\pm 1\%$
Delay	: ≤ 10 ns
CMRR	: DC: ≥ 80 dB, 100 Hz: ≥ 60 dB, 1 MHz: ≥ 50 dB
Max. Input Voltage-to-Earth Safety Rating	: 1000 Vrms CAT II, 600 Vrms CAT III
Input Referred Noise	: 50X: ≤ 2 mVrms / 500X: ≤ 1 mVrms
Output Voltage	: ≤ 2.6 V
Output Termination	: Terminate into $1\text{ M}\Omega$
Power Adapter Input	: AC100-240V 50/60Hz (0.5A Max.)
Power Adapter Input	: DC 9V (1000mA)

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Mechanical Characteristics

Switchable Attenuation	: Yes
Over range LED	: Yes
Input Cable Length	: 22.5 cm (8.86 in)
Output Cable Length	: 85 cm (33.46 in)
Probe Body Weight	: 149 g (5.26 oz)
Probe Body Dimensions	: 120 mm × 55 mm × 24 mm (4.72 in × 2.17 in × 0.95 in)
Alligator Clip Dimensions	: 83 mm × 35 mm × 13 mm (3.27 in × 1.38 in × 0.52 in)
Plunger Clips	: 160 mm × 45 mm × 13 mm (6.3 in × 1.77 in × 0.52 in)

Environmental Characteristics

Operating Temperature and Humidity	: 0°C to 40°C, 85% R.H.
Storage Temperature and Humidity	: -10°C to 45°C, 90% R.H.
Operating Altitude	: 3,000m (9,842 ft)
Storage Altitude	: 12,000m (39,370 ft)

Part Number Table

Description	Part Number
Oscilloscope differential Probe, High Voltage, 100MHz	MP8100

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