

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)	: 50 MHz
Rise Time	: ≤ 7 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 Over voltage 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	: AC 100-240V 50/60Hz (0.5A Max.)
Power Adapter Input	: DC 9V (1000mA)

High Voltage Differential Probe multicomp^{PRO}

Mechanical Characteristics

Switchable Attenuation	: Yes
Over range LED	: Yes
Input Cable Length	: 54 cm (21.26 in)
Output Cable Length	: 85 cm (33.46 in)
Probe Body Weight	: 162 g (5.71 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, 50MHz	MP8050

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
sg.element14.com/b/multicomp-pro

multicomp^{PRO}