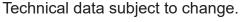
CT407150 MHz Differential Probe

Datasheet

Overview:

The CT4071 is an active differential probe with a high input impedance and low input capacitance. With a 50 MHz bandwidth, this probe is great for working on a wide variety of measurements ranging up to ±3500 V. The CT4071 is compatible with oscilloscopes from all major manufacturers.

Features: 50 MHz bandwidth (-3 dB) Up to ±3500 V (DC + Peak AC) Attenuation 100x/200x/500x/1000x High accuracy (±2%) Power indicator LED Meets IEC 61010-1:2010 CAT II safety standard **Kit Contents: Differential Probe** (2) High voltage hook probes (2) Alligator clips (2) Retractable, sheathed 4 mm banana plug test leads, silicone jacketed



(1) Insulated BNC cable(1) 9 V power adapter

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All specifications apply to the unit after a temperature stabilization time of 20 minutes over an ambient temperature range of 25 $^{\circ}$ C ± 5 $^{\circ}$ C.

Electrical Characteristics	
Bandwidth (-3 dB)	50 MHz
Rise Time	7 ns
Attenuation Ratio	100x / 200x / 500x / 1000x
Gain Accuracy	±2% *
CMRR (typical)	60 Hz: 80 dB 100 Hz: 60 dB 1 MHz: 50 dB
Maximum Differential Input Voltage (DC + Peak AC)	±350 V at 100x ±700 V at 200x ±1750 V at 500x ±3500 V at 1000x
Maximum Common Mode Input Voltage (DC + Peak AC)	±3500 V
Input Impedance (Differential)	16 MΩ // 1.2 pF
Input Impedance (each side to ground)	8 MΩ // 2.3 pF
Output Voltage Swing	±7 V (driving 1MΩ load)
Offset (typical)	±5 mV
Noise (typical)	2 mVrms
Source Impedance	50 Ω
Power Supply	9 V power adapter (included)

Mechanical Characteristics	
Weight (probe only)	280 g
Dimensions	240 x 80 x 30 mm
BNC Cable Length	100 cm
Input Leads Length	55 cm each

Environmental Characteristics	
Operating Temp/Humidity	0°C to 50°C / 10% to 85% RH
Storage Temp/Humidity	-30°C to 70°C / 10% to 90% RH
Pollution Degree	Pollution Degree 2

Safety Specifications	
IEC 61010-031:2015 CAT II	

 $^{^{\}star}$ Accuracy based on DMM with 10 $\text{M}\Omega$ input impedance

Specifications are subject to change without notice. To ensure the most current version of this manual, please download the current version from our website: caltestelectronics.com



Performance Data Plots

