

# CT4068

## High Voltage Differential Probe

### 35 MHz / $\pm 800$ V

# Datasheet

#### Overview:

Use the CT4068 35-MHz differential probe to make safe and accurate floating measurements with an oscilloscope. The CT4068 differential probe allows conventional earth-grounded oscilloscopes to be used for floating signal measurements of up to  $\pm 800$  V for both differential and common mode voltage.



#### Features:

- 35 MHz bandwidth
- Selectable attenuation settings of 10x or 100x
- Up to  $\pm 800$  V differential and common mode voltage
- Compatible with most oscilloscopes
- Powered by included 9 VDC mains adapter



# Specifications

<i>Operating Parameters</i>	
Bandwidth	35 MHz
Rise Time	10 ns
Attenuation	10x/100x
Accuracy	±2%
AC CMRR	-80 dB @ 60 Hz -60 dB @ 100 Hz -50 dB @ 1 MHz
Input Impedance	Between inputs: 9 MΩ // 1.7 pF Each input to ground: 4.5 MΩ // 3.4 pF
<i>Input Voltage</i>	
Differential Voltage (DC+ACpk)	±80 V / ±800 V
Common-Mode Voltage (DC+ACpk)	±800 V 560 Vrms
Absolute Max Voltage (DC+ACpk)	±800 V 560 Vrms
<i>Output Voltage</i>	
Swing	±8 V (±4 V into 50 Ω load)
Source Impedance (Typ.)	50 Ω
General	
Power Supply	External 9 VDC power supply
Power Consumption	200 mA (about 9 VDC)
Operating Temperature/Humidity	0°C to 50°C / 10% to 85% RH
Storage Temperature/Humidity	-30°C to 70°C / 10% to 90% RH
Cable Length	100 cm (separate leads)
Input Leads Length	60 cm (separate leads)
Weight	250 g
Dimensions	195 x 55 x 30 mm