# CT4068

## High Voltage Differential Probe 35 MHz / ±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 ±800 V for both differential and common mode voltage.


***Features:***

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

# Specifications

| | |
|---|---|
| ***Operating Parameters*** | |
| Bandwidth | 35 MHz |
| Rise Time | 10 ns |
| Attenuation | 10x/100x |
| Accuracy | ±2% |
| AC CMRR | -80 dB @ 60 Hz<br>-60 dB @ 100 Hz<br>-50 dB @ 1 MHz |
| Input Impedance | Between inputs: 9 MΩ // 1.7 pF<br>Each input to ground: 4.5 MΩ // 3.4 pF |
| ***Input Voltage*** | |
| 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 |
| ***Output Voltage*** | |
| 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 |