## CT4068-NA

## High Voltage

 Differential Probe $35 \mathrm{MHz} / \pm 800$ V

## Features:

■ 35 MHz bandwidth

- Selectable attenuation settings of $10 x$ or 100x
- Up to $\pm 800$ V differential and common mode voltage
- Compatible with most oscilloscopes

■ Powered by included 9 VDC mains adapter

## Datasheet

## Overview:

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


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| :---: | :---: |
| Operating Parameters |  |
| Bandwidth | 35 MHz |
| Rise Time | 10 ns |
| Attenuation | 10x/100x |
| Accuracy | $\pm 2 \%$ |
| AC CMRR | $\begin{array}{\|l} \hline-80 \mathrm{~dB} @ 60 \mathrm{~Hz} \\ -60 \mathrm{~dB} @ 100 \mathrm{~Hz} \\ -50 \mathrm{~dB} @ 1 \mathrm{MHz} \\ \hline \end{array}$ |
| Input Impedance | Between inputs: $9 \mathrm{M} \Omega / / 1.7 \mathrm{pF}$ Each input to ground: 4.5 $\mathrm{M} \Omega / /$ 3.4 pF |
| Input Voltage |  |
| Differential Voltage (DC+ACpk) | $\pm 80 \mathrm{~V} / \pm 800 \mathrm{~V}$ |
| Common-Mode Voltage (DC+ACpk) | $\pm 800$ V 560 Vrms |
| Absolute Max Voltage (DC+ACpk) | $\pm 800$ V 560 Vrms |
| Output Voltage |  |
| Swing | $\pm 8 \mathrm{~V}( \pm 4 \mathrm{~V}$ into $50 \Omega$ load) |
| Source Impedance (Typ.) | $50 \Omega$ |
| General |  |
| Power Supply | External 9 VDC power supply |
| Power Consumption | 200 mA (about 9 VDC) |
| Operating Temperature/ Humidity | $0^{\circ} \mathrm{C}$ to $50^{\circ} \mathrm{C} / 10 \%$ to $85 \% \mathrm{RH}$ |
| Storage Temperature/Humidity | $-30^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C} / 10 \%$ to $90 \% \mathrm{RH}$ |
| Cable Length | 100 cm (separate leads) |
| Input Leads Length | 60 cm (separate leads) |
| Weight | 250 g |
| Dimensions | $195 \times 55 \times 30 \mathrm{~mm}$ |

