



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



CT4192

70 MHz Differential Probe

Datasheet

Overview:

The CT4192 is an active differential probe with a very high input impedance and low input capacitance. With a 70 MHz bandwidth, this probe is great for working on a wide variety of measurements ranging up to ± 700 V. The addition of an offset adjustment tool will give you the extra confidence that your measurements are accurate. The CT4192 is compatible with oscilloscopes from all major manufacturers.



Features:

- 70 MHz bandwidth (-3 dB)
- Up to ± 700 V (DC + AC peak)
- Attenuation 10x/100x
- High accuracy ($\pm 1\%$)
- Power indicator LED
- (2) Hook probes
- (4) AA batteries
- Optional power adapter (CT3723)
- Offset adjustment tool
- Protective rubber boot
- Meets IEC 61010-031 CAT II safety standard

All specifications apply to the unit after a temperature stabilization time of 20 minutes over an ambient temperature range of 25 °C ± 5 °C.

| Electrical Characteristics | |
|--|--|
| Bandwidth | 70 MHz |
| Rise Time | 7.5 ns |
| Attenuation | 10x/100x |
| Accuracy | ±1% * |
| AC CMRR | -80 dB @ 50 Hz -60 dB @ 20 kHz -46 dB @ 1 MHz -40 dB @ 10 MHz |
| Maximum Differential Input Voltage (DC + AC peak) | ±70 V @ 10x ±700 V @ 100x |
| Maximum Common-Mode Input Voltage (DC + AC peak) | ±70 V @ 10x ±700 V @ 100x |
| Absolute Max Rated Input Voltage (each side to ground) | 1000 Vrms |
| Input Resistance // Capacitance | 4 MΩ // 5.5 pF (each side to ground) |
| Output Voltage Swing | ±7 V (driving 1 MΩ oscilloscope input) |
| Offset (typical) | ±5 mV (adjustable) |
| Noise (typical) | 2 mVrms |
| Source Impedance | 50 Ω |
| Power Supply | 4 AA batteries (included) or CT3723 power adapter (optional) |
| Power Consumption | 80 mA (about 9 VDC) |

| Mechanical Characteristics | |
|----------------------------|------------------------------------|
| Weight | 400 g (with probe and rubber boot) |
| Dimensions | 170 x 63 x 21 mm |
| BNC Cable Length | 95 cm |
| Input Leads Length | 45 cm each |

| Environmental Characteristics | |
|-------------------------------|---|
| Operating Temp/Humidity | -10°C to 40°C / up to 85% RH |
| Storage Temp/Humidity | -30°C to 70°C / up to 85% RH |
| Pollution Degree | Pollution Degree 2 |
| Altitude | Operating: 3,000 m Non-operating: 15,300 m |

* Accuracy of the probe remains at 1% up to 500 V. At 700 V accuracy is 4%.

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

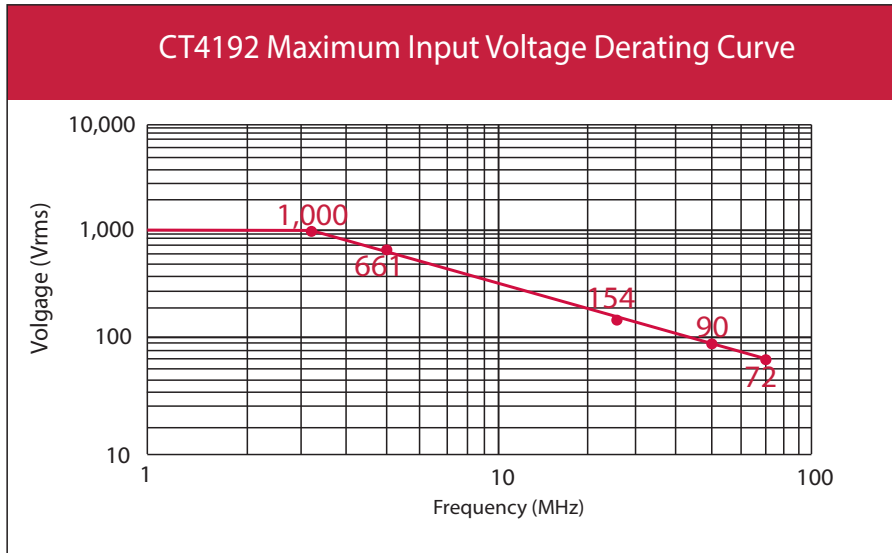


Figure 1 Derating Curve