

# CT4025

## 10 kV High Voltage Probe

# Datasheet



### Overview:

The Cal Test Electronics CT4025 is a 10 kV high voltage divider probe for use with both digital and analog oscilloscopes.

### Features:

- Input voltage of 10 kV (DC+ACpk)
- 120 MHz bandwidth
- Voltage dividing of 100:1
- Frequency compensation

Technical data subject to change.  
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## Specifications

| <b>Operating Parameters</b>   |  |
|-------------------------------|--|
| Maximum Input Voltage (CAT I) | 10 kV (DC + ACpk)<br>7 kVrms AC  |
| Maximum Loading Current       | 100 $\mu$ A  |
| Division Ratio                | 100:1  |
| Bandwidth                     | DC to 120 MHz  |
| Compensation Range            | 10 pF to 35 pF   |
| Temperature Coefficient       | $\leq$ 200 ppm/ $^{\circ}$ C   |
| Input Resistance              | 100 M $\Omega$   |
| Input Capacitance             | 2.0 pF   |
| Rise Time                     | 3.0 ns   |
| Signal/Noise                  | >60 dB @ 1 KHz<br>>50 dB @1 MHz  |
| <b>Accuracy</b>               |  |
| DC Volts                      | $\leq$ 3%  |
| AC Volts                      | $\leq$ 3% at 1 kHz   |
| <b>General</b>                |  |
| Cable Length                  | 6.6 ft (2 m)   |
| Designed for Use in           | Pollution Degree 2   |
| Operating Environment         | 14 $^{\circ}$ F to 131 $^{\circ}$ F<br>(-10 $^{\circ}$ C to 55 $^{\circ}$ C) |
| Storage Temperature           | -4 $^{\circ}$ F to 158 $^{\circ}$ F<br>(-20 $^{\circ}$ C to 70 $^{\circ}$ C) |
| Humidity                      | $\leq$ 85% relative humidity at 95 $^{\circ}$ F (35 $^{\circ}$ C)            |
| Dimensions                    | 3.1 x 3.1 x 12.6 in<br>(8 x 8 x 32 cm)                                       |
| Weight                        | 1.0 lbs (460 g)  |
| Warranty                      | One-year warranty  |

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