

30 kV High-Voltage Oscilloscope Probe

CT4028A



Features:

- Up to 30 kV DC
- 50 MHz Bandwidth
- Improved usage time at high voltage
- Compensation range of 10 pF - 35 pF
- Insulated BNC connection
- Full accessory offering
- Hard-shell carrying case
- DMM compatible with optional BNC Converter, CT3197B
- RoHS and REACH compliant
- Two-year warranty

Description:

Cal Test Electronics' improved CT4028A High-Voltage Oscilloscope Probe enables one to safely measure voltages up to 30 kV DC or 12 kVrms - now with a longer operating cycle. With new input circuitry, the probe can measure voltages up to 30 kV for 30 minutes before recommended removal. The original operating cycle was only 1 minute.

The CT4028 features 1000x attenuation, a bandwidth up to 50 MHz, plus features a full range of contact tips and grounds connection alligator clips.

With a compensation range of 10 pF to 35 pF, the probe is compatible with 1 M Ω input oscilloscopes from all major manufacturers. Using the optional CT3197B Impedance Converter, the probe is DMM compatible.

The CT4028A is now covered by a two-year warranty, and is fully RoHS 2 plus REACH compliant.

For additional product information, cross-references, or other test accessory information, visit www.caltestelectronics.com.

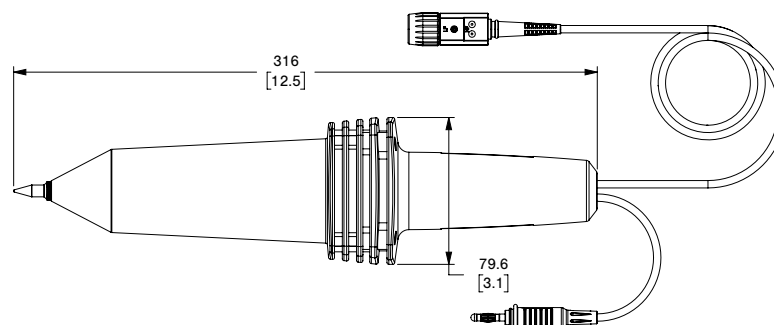
WARNING

As with all high-voltage test accessories, please read and follow all recommended safety instructions.

Specifications:

- See page 2

Outline Drawing: (not to scale)



Ordering Information:

CT4028A

30 kV High-Voltage Oscilloscope Probe

Order Example:

CT4028A

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Specifications:

Parameter	Characteristic
Maximum Input Voltage	30 kV DC 12 kV ACrms
Maximum Loading Current	45 μ A
Attenuation	1000x
Bandwidth	DC to 50 MHz (-3 dB)
Rise Time	≤ 7 ns
Input Resistance	900 M Ω
Input Capacitance	2.0 pF
Signal/Noise	> 60 dB @ 1 kHz > 50 dB @ 1 MHz
Accuracy	$\leq 3\%$ (0 to 30 kV) DC $\leq 3\%$ (@ 60 Hz) AC
Temperature Coefficient	≤ 200 ppm/ $^{\circ}$ C
Compensation Range	10 pF to 35 pF
BNC Cable Length	2 m (6.6 ft)
Operating Temperature	0 $^{\circ}$ C to 50 $^{\circ}$ C (32 $^{\circ}$ F to 122 $^{\circ}$ F)
Storage Temperature	-20 $^{\circ}$ C to 70 $^{\circ}$ C (-4 $^{\circ}$ F to 158 $^{\circ}$ F)
Humidity	$\leq 80\%$ RH @ 40 $^{\circ}$ C (104 $^{\circ}$ F)
Weight	460 g (1 lb)

Supplied Accessories:

Accessory	Model No.
Round Tip	CT2960A
Hook Tip	CT2961A
Bar Tip & Nut	CT2962A
Trimmer Tool	CT4212
Alligator Ground Clip, Black	CT4108-0
Alligator Ground Clip Lead, 1 m	CT4494-85
High-Voltage Isolation Head (for use at > 25 kV)	CT4107

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