

Active Differential Probe Kit, 200 MHz, 10x Small Signal $\pm 20V$

CT3688A



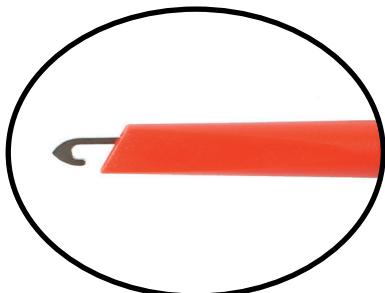
Features:

- Meets IEC 61010-031 safety standard
- Small compact size
- Up to $\pm 20 V$ differential
- High accuracy $\pm 1\%$
- 200 MHz bandwidth (-3dB)
- Excellent CMRR
- Kit comes in foam-lined plastic case and contains:
 - Differential probe
 - (2) Sprung hook probes, 1000 V, CAT III, 20 A (black & red)
 - (2) Alligator clips, 300 V, CAT II (black & red)
 - 9 V Battery
 - USB Power Cable

Description:

Differential probes allow safe, accurate measurement between two voltage points where neither point is referenced to ground. The CT3688A offers a 200 MHz bandwidth and can test up to $\pm 60 V$ (DC + AC peak). Compatible with oscilloscopes from all major manufacturers, the probe can be battery operated or powered directly from an oscilloscope using the included USB cable.

Accessories:



Specifications and appearance subject to change without notice
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Cal Test
ELECTRONICS

SPECIFICATIONS

All specifications apply to the unit after a temperature stabilization time of about 20 minutes over an ambient temperature range of $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$.

ELECTRICAL SPECIFICATIONS

Bandwidth (-3dB)	200 MHz
Rise Time (10%-90%)	1.75 ns
Attenuation Ratio	10x
Accuracy	$\pm 1\%$
CMRR (typical)	-80 dB @ 100 Hz -50 dB @ 10 MHz
Maximum Differential Input Voltage (DC + AC peak)	± 20 V
Maximum Common Mode Input Voltage (DC + AC peak)	± 60 V
Absolute Maximum Rated Input Voltage (each side to ground)	40 Vrms CAT I
Input Impedance	500 k Ω // 7 pF (each side to ground)
Output Voltage Swing	± 2 V (driving 50 Ω oscilloscope input)
Offset (typical)	± 2 mV
Noise (typical)	0.3 mVrms
Source Impedance	50 Ω
Power Supply	CT4122 USB Power Cable (included) or 9 V battery (included)

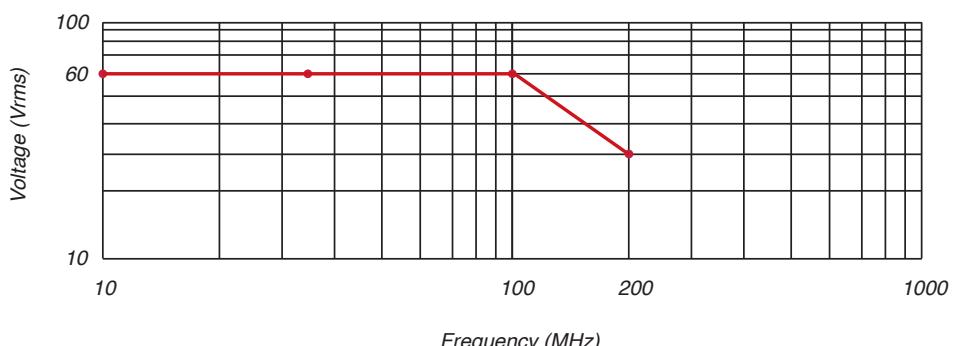
MECHANICAL SPECIFICATIONS

ENVIRONMENTAL SPECIFICATIONS

Weight	200 g	Operating Temp/Humidity	-10°C to 40°C / Up to 85% RH
Dimensions (L x W x H)	111 mm x 22 mm x 14 mm	Storage Temp/Humidity	-30°C to 70°C / Up to 85% RH
		Pollution Degree	Pollution Degree 2
BNC Cable Length	120 cm	Altitude	Operating: 3,000 m Non-operating: 15,300 m

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MAXIMUM INPUT VOLTAGE DERATING CURVE



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Order Information:

CT3688A

Active Differential Probe Kit, 200 MHz, 10x Small Signal $\pm 20V$

CT4122

USB Power Cable

CT4386

Insulated Sprung Hook Probes, 1000V, CAT III, 20A, Pair (Black & Red)

CT4441

Insulated Medium Alligator Clips, 300V, CAT II, Pair (Black & Red)

CT3723

9 V DC Power Adapter

Kit Image:



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