

TEKTRONIX

CT-2

The Tektronix CT-2 is a high-frequency AC current transformer designed for use with oscilloscopes and other 50 Ω terminated measuring instruments. It provides non-intrusive current measurements of circuit board traces and component leads by passing the conductor through its integrated aperture.

SPECIFICATIONS

General

Interfaces	SMA output connector
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Physical

Power Supply	Passive (no external power required)
Operating Temperature	-15 to +55 °C °C
Dimensions (W×H×D)	9.7 mm × 16.0 mm × 15.2 mm mm
Weight	0.004 kg kg

Electrical Specifications

Bandwidth (-3 dB)	1.2 kHz to 200 MHz
Low-Frequency Cutoff (-3 dB)	1.2 kHz
High-Frequency Cutoff (-3 dB)	200 MHz
Sensitivity (Transfer Impedance)	1 mV/mA (into 50 Ω)
Sensitivity Accuracy	±3%
Rise Time	1.7 ns
Decay Time Constant	135 μ s
Droop Rate	0.7 %/ μ s
Amp-Second Product	50 A- μ s (50 μ As)
Maximum Continuous Current (RMS)	2.5 A
Maximum Peak Pulse Current	100 A
DC Current Limit (Saturation)	0.5 A
Primary Insertion Impedance	0.1 Ω at 10 MHz, 0.5 Ω at 100 MHz, 1.0 Ω at 200 MHz
Insertion Inductance	5 nH

Physical and Mechanical Characteristics

Aperture Diameter	3.2 mm (0.125 in)
Output Connector Type	SMA

Compatibility and Accessories

Required Termination Impedance	50 Ω
Recommended Interconnecting Cable	P6041 (SMA to BNC)

Performance

Propagation Delay	2.3 ns
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Electrical

Maximum Bare-Wire Voltage	30 V RMS
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Environmental

Storage Temperature	-62 to +85 °C
Operating Altitude	Up to 4,570 m (15,000 ft)
Storage Altitude	Up to 15,240 m (50,000 ft)

TECHNOLOGY

Passive Current Transformer

APPLICATIONS

High-frequency AC current measurements

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.