

Tektronix

TEKFA

TCP202 DC Coupled Current Probe

Easy Current Measurements

Probe Connects Directly
to TDS Scope through
TEKPROBE™ Interface

Split Core Construction
for Easy Circuit Connection

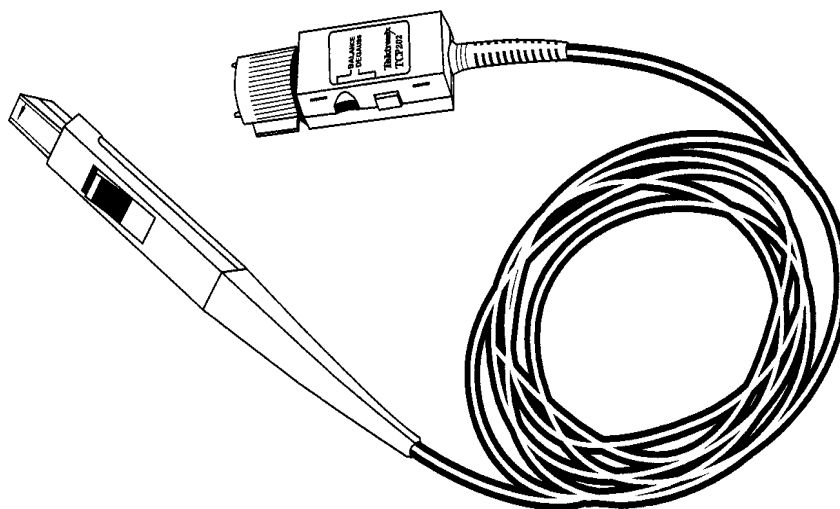
DC to 50 MHz Bandwidth

15 Amps DC Current

50 Amps Peak Pulse Current

500 x 10⁻⁶ Amp•Sec Product

UL, CSA, CE Certified



When combined with a Tektronix TDS oscilloscope, the TCP202 enables users to make direct read-out DC and AC current measurements, resulting in accurate displayed and recorded measurements.

The TCP202 is a general purpose probe for displaying and measuring current in electronic circuits. It is ideal for power supply and motor drive design, and for device testing.

STANDARD SPECIFICATIONS

Bandwidth
DC to 50 MHz

Max DC Current
15 A

Max Peak Pulse Current
50 A

Minimum Sensitivity
10 mA/div

DC Accuracy
± 1% (with probe calibrator)
± 3% (without probe calibrator)

Max Bare Wire Voltage
300 V (Cat I)

TYPICAL CHARACTERISTICS

Insertion Impedance
0.002 Ω at 1 kHz
0.1 Ω at 5 MHz

Propagation Delay
17 ns

Max Conductor Diameter
3.8 mm (0.15 inch)

Electrostatic Immunity
(per IEC 801-2)
> 8 kV

Amp•Sec Product
500 x 10⁻⁶ Amp•Sec

Rise Time
≤ 7.0 ns

PHYSICAL CHARACTERISTICS

Weight
0.19 kg (0.44 lb)

Cable Length
2.2 m (7.2 ft)

POWER REQUIREMENTS

TCP202 is powered by the TDS oscilloscope via the TEKPROBE™ interface

SAFETY CERTIFICATIONS

UL 3111.1
CSA 1010.1, 1010.2-031
IEC 1010.1, 1010.2-031



TCP202

DC Coupled Current Probe

For further information, contact Tektronix:

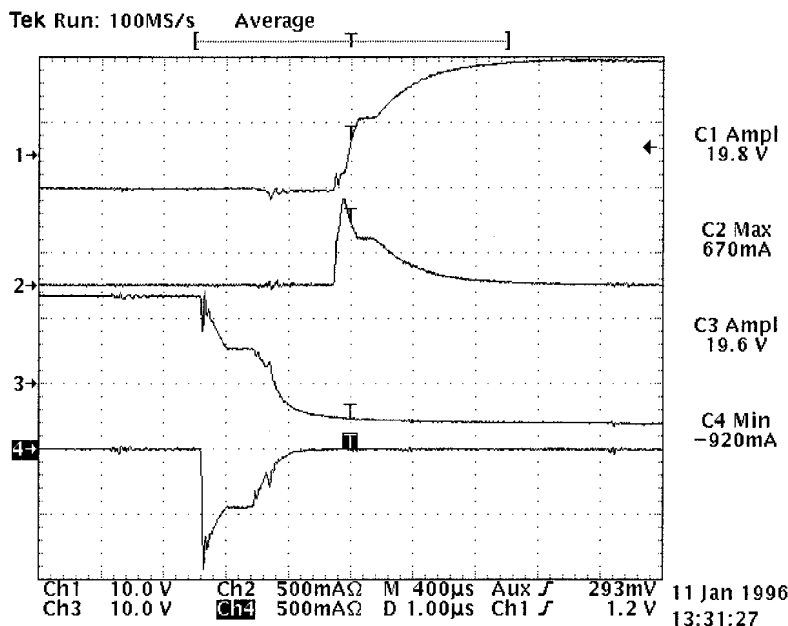
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TCP202 — IGBT current and voltage waveforms

ORDERING INFORMATION

TCP202 DC COUPLED CURRENT PROBE

Includes: Instruction manual (070-9542-00), reference manual (070-9543-00)

RECOMMENDED ACCESSORIES

Probe Calibrator
(015-0672-50)
Use with TDS 520B, TDS 540B, TDS 724A, TDS 744A, and TDS 784A for improved accuracy

TDS 7U01 Upgrade Kit
For TDS 744A and TDS 784A

RECOMMENDED OSCILLOSCOPES

- TDS 520B
- TDS 540B
- TDS 724A
- TDS 744A (S/N B050001 or higher)
- TDS 784A (S/N B050001 or higher)
- TDS 744A and TDS 784A with S/N B040XXX or lower can be upgraded to the latest version using the TDS 7U01 Upgrade Kit

The TCP202 operates with all other TDS 400, TDS 500, TDS 600, and TDS 700 series oscilloscopes; the scale factor will be correct, but measurement will be indicated as V instead of A

Please check with your local Tektronix Service Center

RELATED PRODUCTS

- 1103**
TEKPROBE Power Supply
(for use with non-TEKPROBE BNC scopes)
- ADA400A**
Differential Preamplifier
- P5205**
High Voltage Differential Probe