Current Probes Datasheet

TRCP0300 TRCP0600 TRCP3000 Current Probes Datasheet

The TRCP Series Rogowski current probes are equipped with a BNC connector and work with any instrument supporting the BNC interface. Rogowski probes allow you to easily connect to large connection points such as bus bars or connect to small IC legs on a MOSFET or IGBT.

Key features

- TRCP0300
  - AC only
  - 9 Hz to 30 MHz
  - 250 mA to 300 A peak
- TRCP0600
  - AC only
  - 12 Hz to 30 MHz
  - 500 mA to 600 A peak
- TRCP3000
  - AC only
  - 1 Hz to 16 MHz
  - 500 mA to 3,000 A peak

Applications

- Motor drives
- Inverters
- Power supplies
- Industrial

TRCP0300-TRCP0600 Current Probes

The TRCP0300 and TRCP0600 are designed for use on small form factor components. These AC-only Rogowski probes have a thin, flexible coil that can easily be wrapped around test points such as the leg of a transistor.

TRCP3000 Current Probe

The TRCP3000 has a larger coil that is capable of handling large overload currents without damage. This probe is easy to use and can be inserted into places that are hard to reach and can be wrapped around larger test points such as bus bars.

Specifications

All specifications apply to all models unless noted otherwise.

Key specifications

	TRCP0300	TRCP0600	TRCP3000
Frequency range	9 Hz to 30 MHz	12 Hz to 30 MHz	1 Hz to 16 MHz
Peak current	300 A	600 A	3000 A
Minimum current	250 mA	500 mA	500 mA
Sensitivity	20 mV/A	10 mV/A	2 mV/A
External probe attenuation setting on oscilloscope	50X	100X	500X
Accuracy (typical)	+/- 2% of reading	+/- 2% of reading	+/- 2% of reading
Coil diameter	1.7 mm	4.5 mm	8.5 mm
Termination	1 MΩ BNC	1 MΩ BNC	1 MΩ BNC

Ordering information

Use the following information to choose accessories and options for your probes.

TRCP Series Rogowski Current Probes

TRCP0300	300 A, AC-Only Rogowski Current Probe
TRCP0600	600 A, AC-Only Rogowski Current Probe
TRCP3000	3,000 A, AC-Only Rogowski Current Probe

Standard accessory

AC power adapter

Options

Service options

Opt. C3	Calibration Service 3 Years
Opt. C5	Calibration Service 5 Years
Opt. D1	Calibration Data Report
Opt. D3	Calibration Data Report 3 Years (with Opt. C3)
Opt. D5	Calibration Data Report 5 Years (with Opt. C5)
Opt. R3	Repair Service 3 Years (including warranty)
Opt. R3DW	Repair Service Coverage 3 Years (includes product warranty period). 3-year period starts at time of instrument purchase
Opt. R5	Repair Service 5 Years (including warranty)
Opt. R5DW	Repair Service Coverage 5 Years (includes product warranty period). 5-year period starts at time of instrument purchase

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For Further Information. Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit *www.tek.com*.

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