

Rogowski AC Current Probe

RCP series

- ▶ Bandwidth: 10Hz-30MHz
- ▶ Accuracy (typical): 1%
- ▶ Output noise: < 12mVpp
- ▶ Current range: max 600Apk
- ▶ Coil cross-section: 1.6mm
- ▶ Standard BNC interface



PRODUCT OVERVIEW

Micsig Rogowski current probe RCP series measures AC currents up to 600Apk, max. bandwidth up to 30 MHz, delivers 1% typical accuracy, able to measure high-frequency, large current signals easily and accurately.

Smaller coil cross-section

The cross-sectional diameter of the coil is only 1.6mm, allow engineers measure current in most difficult-to-reach parts of the circuit, such as TO-220, TO-47 MOSFET.



Measure the Id current of MOSFET

Excellent high-frequency measurement capabilities, easily measures high-speed signals, able to observe HF harmonic components when measuring the Id current of MOSFET (as shown the oscillation section).



Applications

- Measurement of 50/60Hz power frequency current
- Measurement of harmonic components in the current
- Measurement of pin currents in MOSFET or IGBT devices
- Measurement of load current and high-order harmonic current in power electronics

Specifications

Model	RCP300 XS	RCP600 XS
Bandwidth	10Hz-30MHz	10Hz-30MHz
Measurement range	200mApk-300Apk	200mApk-600Apk
Output sensitivity	20mV/A (50X)	10mV/A (100X)
Accuracy (typical)	1%	1%
Peak di/dt	20kA/µs	40kA/µs
Droop (%/ms)	9%/ms	6%/ms
Output noise	< 18mVpp	< 12mVpp
Peak coil isolation voltage	AC 1kVrms (1 min) (50Hz/60Hz) (Rogowski coil part only)	
Coil cross-section diameter	1.6mm	
Interface	1MΩ BNC	

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