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Data Sheet

August 12, 2026

ROHDE & SCHWARZ

Rohde and Schwarz RT-ZC15B Current Probe, 50 MHz

Rohde & Schwarz Laboratory Measurement Instruments. Bandwidth: DC to 50 MHz (-3 dB), Sensitivity: 0.1 V/A, Current: 50 A.



MODEL

**Rohde & Schwarz
RT-ZC15B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

RT-ZC15B

LISTING

<https://aumictechlabs.com/products/rt-zc15b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz RT-ZC15B is a 50 MHz AC/DC current probe engineered for non-intrusive current measurement across dynamic analysis, troubleshooting, and laboratory applications. Operating across DC to 50 MHz bandwidth, the probe captures current waveforms without circuit interruption, enabling real-time monitoring of signal behavior. Direct oscilloscope powering via the R&S probe interface eliminates external supply requirements while the compact clamp design accommodates conductors up to 5 mm diameter. Technical Specifications Measurement Performance Bandwidth: DC to 50 MHz (-3 dB) Sensitivity: 0.1 V/A Maximum continuous current (RMS): 30 A Maximum peak current: 50 A Rise time (10% to 90%): 7 ns Propagation delay: 16.5 ns Electrical & Physical Input coupling: AC/DC Measurement category: CAT III 300 V Maximum conductor diameter: 5 mm Cable length: 1.5 m Key Features Non-intrusive measurement without circuit interruption Powered directly by compatible oscilloscopes - no external supply needed

BNC precision (7 mm) meter-side connector ensures signal integrity Operating temperature range: 0°C to 40°C Operating humidity: 80% RH or less Typical Applications Dynamic current waveform capture and analysis Power supply and regulator troubleshooting Signal integrity assessment in switching circuits Educational and laboratory measurement tasks Compatibility & Integration The RT-ZC15B connects directly to Rohde & Schwarz oscilloscopes equipped with the R&S probe interface, including RTM, RTE, RTO, RTA, and RTM3000/RTA4000 series. The current clamp connector interfaces with conductors up to 5 mm while maintaining measurement category CAT III 300 V compliance. Supplied with carrying case and operating manual.

Features & description

From manufacturer datasheet

Features

- Bandwidth: DC to 50 MHz (−3 dB, meas.) • Rise time (10%–90%): 7 ns (meas.) • Sensitivity: 0.1 V/A • Sensitivity error: $\pm 1\%$ at +23 °C ± 3 °C • Max continuous current: 30 A RMS • Max peak: ± 50 A (peak) class • Zero error after demagnetize/zero: ± 10 mA (meas.) • Max conductor diameter: approx. 5 mm • Interface: R&S probe interface (power + remote); requires 1 M Ω scope input • Order: 1409.8227.02 • Includes carrying case / operating manual (OEM listing)

RTZC15B Characteristics / Specifications

PARAMETER	VALUE
Model	RT-ZC15B
Manufacturer	Rohde & Schwarz
Instrument Type	AC/DC Current Probe
Alias	RT-ZC15B; R&S RT-ZC15B Electrical
Bandwidth	DC to 50 MHz (−3 dB, meas.)
Rise time	7 ns
Sensitivity	0.1 V/A
Max current	30 A RMS; ±50 A peak Mechanical
Jaw / conductor	~5 mm max diameter Notes Specs from R&S RT-ZC15B user manual and RT-Zxx HV/current probe datasheet. Confirm serial and accessories on the unit.
Rise time (10%–90%)	7 ns (meas.)
Sensitivity error	±1% at +23 °C ±3 °C
Max continuous current	30 A RMS
Max peak	±50 A (peak) class
Zero error after demagnetize/zero	±10 mA (meas.)
Max conductor diameter	approx. 5 mm
Interface	R&S probe interface (power + remote); requires 1 MΩ scope input
Order	1409.8227.02

RTZC15B Specifications

PARAMETER	VALUE
Applications	Non-intrusive current waveform capture; power electronics and low-to-mid frequency current analysis without breaking the circuit.
Key Features	- Bandwidth: DC to 50 MHz (–3 dB, meas.)
Technical Specifications	Model: RT-ZC15B
Electrical	Bandwidth: DC–50 MHz
Mechanical	Jaw / conductor: ~5 mm max diameter
Notes	Specs from R&S RT-ZC15B user manual and RT-Zxx HV/current probe datasheet. Confirm serial and accessories on the unit.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	RT-ZC15B
Manufacturer	Rohde & Schwarz
Instrument Type	AC/DC Current Probe
Alias	RT-ZC15B; R&S RT-ZC15B

Electrical

Electrical

PARAMETER	VALUE
Bandwidth	DC-50 MHz
Rise time	7 ns
Sensitivity	0.1 V/A
Max current	30 A RMS; ±50 A peak

Mechanical

Jaw / conductor: ~5 mm max diameter

Notes

Specs from R&S RT-ZC15B user manual and RT-Zxx HV/current probe datasheet. Confirm serial and accessories on the unit.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.