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Data Sheet

August 12, 2026

ROHDE & SCHWARZ

Rohde and Schwarz RT-ZM90 Modular Probe Amplifier, 9 GHz, Multimode

The Rohde & Schwarz RT-ZM90 is a modular probe amplifier with a bandwidth of 9 GHz, designed for use with the R&S Scope Rider series of oscilloscopes. It supports multiple modes of operation, offering versatility for various measurement applications. This amplifier enhances the signal integrity and sensitivity of measurements, ensuring accurate and reliable results in demanding electronic testing scenarios.



MODEL

**Rohde & Schwarz
RT-ZM90**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

RT-ZM90

LISTING

<https://aumictechlabs.com/products/rt-zm90-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz RT-ZM90 is a modular probe amplifier delivering 9 GHz bandwidth for high-speed signal acquisition in electronics development and failure analysis. Its MultiMode architecture enables single-ended, differential, and common-mode measurements without probe reconfiguration, reducing setup time and measurement uncertainty. The probe combines fast rise time performance with flexible attenuation settings and integrated DC measurement capability. Technical Specifications Electrical Performance Bandwidth: DC to 9 GHz Rise Time: 100 kHz) Maximum Non-Destructive Input Voltage: ± 30 V DC Offset Compensation: ± 16 V R&S®ProbeMeter DC Accuracy: 0.05% Key Features Measurement Flexibility MultiMode

measurement architecture for single-ended, differential, and common-mode operation Integrated R&S®ProbeMeter for high-precision independent DC voltage measurement DC offset compensation range of ± 16 V positioned upstream of the differential amplifier ASIC to maximize resolution across the operating voltage window Integrated data memory with individually measured S-parameter profiles for frequency response accuracy Probe Control Configurable micro button for Run/Stop, Auto Set, Save Waveform, Find Trigger Level, and Automated Test Report configuration Compatibility & Integration Oscilloscope Support R&S®RTE, R&S®RTO1000, R&S®RTO2000, R&S®RTP series R&S Scope Rider series compatible Physical Interface Rohde & Schwarz probe interface with double-socket SMP connector 1.2 m cable length Compatible probe tip modules: R&S®RT-ZMA10, R&S®RT-ZMA12, R&S®RT-ZMA15

Features & description

From manufacturer datasheet

Features

- Bandwidth (DM, 10:1 and 2:1): >9.0 GHz
- Rise time (10%–90%, from BW): <50 ps
- Attenuation: 10:1 (± 2.5 V) / 2:1 (± 0.5 V)
- Input R: 400 k Ω differential; 200 k Ω single-ended
- Operating window: ± 7.0 V + ± 16 V offset (DC–100 kHz); ± 5.0 V + ± 16 V (>100 kHz)
- Offset: ± 16 V all modes; non-destruct ± 30 V DC
- Propagation delay: 5.5 ns (meas.); slew ~ 80 V/ns at 10:1 (meas.)
- CMRR (DM): >50 dB DC–1 kHz; 40 / 35 / 25 / 20 dB higher bands (meas.)
- ProbeMeter / micro button; R&S probe interface; SMP tip socket
- Order: 1419.3205.02

RTZM90 Characteristics / Specifications

PARAMETER	VALUE
Model	RT-ZM90
Manufacturer	Rohde & Schwarz
Instrument Type	Modular MultiMode Probe Amplifier
Alias	RT-ZM90; R&S RT-ZM90 Electrical
Bandwidth	>9.0 GHz
Rise time	<50 ps
Attenuation	10:1 (± 2.5 V) / 2:1 (± 0.5 V)
Dynamic range	± 2.5 V / ± 0.5 V
Input R	400 k Ω (DM) / 200 k Ω (SE) Notes Specs from R&S RT-ZM modular probe documentation. System bandwidth depends on tip module used.
Bandwidth (DM, 10	1 and 2:1): >9.0 GHz
Rise time (10%–90%, from BW)	<50 ps
Operating window	± 7.0 V + ± 16 V offset (DC–100 kHz); ± 5.0 V + ± 16 V (>100 kHz)
Offset	± 16 V all modes; non-destruct ± 30 V DC
Propagation delay	5.5 ns (meas.); slew ~80 V/ns at 10:1 (meas.)
CMRR (DM)	>50 dB DC–1 kHz; 40 / 35 / 25 / 20 dB higher bands (meas.)
Order	1419.3205.02

RTZM90 Specifications

PARAMETER	VALUE
Applications	High-speed serial and RF differential probing to 9 GHz with interchangeable RT-ZMA tip modules.
Key Features	- Bandwidth (DM, 10:1 and 2:1): >9.0 GHz
Technical Specifications	Model: RT-ZM90
Electrical	Bandwidth: >9.0 GHz

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-ZM90
Manufacturer	Rohde & Schwarz
Instrument Type	Modular MultiMode Probe Amplifier
Alias	RT-ZM90; R&S RT-ZM90
Electrical	
Electrical	
PARAMETER	VALUE
Bandwidth	>9.0 GHz
Rise time	<50 ps
Attenuation	10:1 / 2:1
Dynamic range	±2.5 V / ±0.5 V
Input R	400 kΩ (DM) / 200 kΩ (SE)
Notes	
Specs from R&S RT-ZM modular probe documentation. System bandwidth depends on tip module used.	

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.