

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 3, 2026

ROHDE AND SCHWARZ

Rohde and Schwarz NRPC18 Calibration Kit with N Connector, DC to 18 GHz

Rohde & Schwarz NRPC18 Calibration Kit with N Connector, DC to 18 GHz The R&S®NRPC18 provides a modular power-sensor calibration kit for calibrating R&S®NRP (and other) power sensors with N connectors from DC to 18 GHz. Each NRPC kit includes a highly accurate thermal power standard traceable to PTB via DAkkS-accredited calibration. Used with a remote-controllable microwave generator, an R&S power meter (e.g. NRP2/NRX), and R&S®Recal+ software, sensors can be calibrated and have updated correction data written to sensor memory. The R&S®NRPC18 provides a modular power-sensor calibration kit for calibrating R&S®NRP (and other) power sensors with N connectors from DC to 18 GHz. Each NRPC kit includes a highly accurate thermal power standard traceable to PTB via DAkkS-accredited calibration. Used with a remote-controllable microwave generator, an R&S power meter (e.g. NRP2/NRX), and R&S®Recal+ software, sensors can be calibrated and have updated correction data written to sensor memory. On-site / lab calibration of N-connector RF power sensors to 18 GHz; absolute accuracy and gamma-corrected power transfer; verification with optional NRPC18-B1 kit.

No photo

MODEL Rohde and Schwarz NRPC18	CALIBRATION N/A — off-catalog OEM datasheet
CONDITION See OEM documentation	STATUS Not listed on Aumictech inventory
RFQ / SKU NRPC18	LISTING Off-catalog — OEM datasheet only

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

Features & description

From manufacturer datasheet

Features

- Frequency range: DC to 18 GHz • Test port: N connector • Test port power range: 10 μ W to 100 mW (–20 dBm to +20 dBm) • Thermal power standard (superior settling/dynamic range vs classic thermistor standards) • Integrated DC reference circuit for automatic power-standard self-check • PTB-traceable / DAkkS-accredited calibration hierarchy • Works with R&S®Recal+; VNA plug-ins for impedance/gamma correction • Optional verification kit R&S®NRPC18-B1 (thermal verification sensor)
- Order number class: 1418.0931.03 (NRPC18); 1418.0954.03 (NRPC18-B1)

NRPC18 Characteristics / Specifications

PARAMETER	VALUE
Model	R&S®NRPC18
Manufacturer	Rohde & Schwarz
Instrument Type	Power Sensor Calibration Kit
Alias	NRPC18 Frequency / Power
Frequency Range	DC to 18 GHz
Test Port Connector	N
Test Port Power Range	10 µW to 100 mW (–20 dBm to +20 dBm)
Additional calibration frequencies (NRPC18)	9 kHz, 14 kHz, 20 kHz, 30 kHz, 50 kHz, 100 kHz, 200 kHz, 500 kHz, 1 MHz, 2 MHz, 5 MHz (per OEM brochure) Verification Option NRPC18-B1
Power measurement range class	1 µW to 100 mW (–30 dBm to +20 dBm) Power Standard Mechanics (OEM)
Power standard approx. dimensions	68 mm × 47 mm × 208 mm
Product contents (typical)	NRPC18 power standard, precision attenuator, precision termination (for voltage probe cal paths per brochure) Typical System Companions
Power meter	R&S®NRP2 or R&S®NRX (+ options)
Signal generator example for NRPC	R&S®SMA100B with appropriate frequency option
VNA for gamma correction	e.g. ZNB8/ZNB20 + N calibration kit Standard Operating Conditions Follow Recal+ sensor-specific procedures. Careful connector torque determines residual uncertainty after gamma correction. Operational Notes Unlike higher-frequency NRPC models, the NRPC18 test port is not user-exchangeable in the same way—protect the Nport. Use NRPC18-B1 for daily verification of the standard/splitter path.
Test port	N connector
Order number class	1418.0931.03 (NRPC18); 1418.0954.03 (NRPC18-B1)

NRPC18 Specifications

PARAMETER	VALUE
Key Features	- Frequency range: DC to 18 GHz
Technical Specifications	Model: R&S®NRPC18
Frequency / Power	Frequency Range: DC to 18 GHz
Power Standard Mechanics (OEM)	Power standard approx. dimensions: 68 mm × 47 mm × 208 mm
Typical System Companions	Power meter: R&S®NRP2 or R&S®NRX (+ options)
Standard Operating Conditions	Follow Recal+ sensor-specific procedures. Careful connector torque determines residual uncertainty after gamma correction.

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	R&S*NRPC18
Manufacturer	Rohde & Schwarz
Instrument Type	Power Sensor Calibration Kit
Alias	NRPC18

Frequency / Power

Frequency / Power

PARAMETER	VALUE
Frequency Range	DC to 18 GHz
Test Port Connector	N
Test Port Power Range	10 µW to 100 mW (−20 dBm to +20 dBm)
Additional calibration frequencies (NRPC18)	9 kHz, 14 kHz, 20 kHz, 30 kHz, 50 kHz, 100 kHz, 200 kHz, 500 kHz, 1 MHz, 2 MHz, 5 MHz (per OEM brochure)

Verification Option NRPC18-B1

Power measurement range class: 1 µW to 100 mW (−30 dBm to +20 dBm)

Power Standard Mechanics (OEM)

Power standard approx. dimensions: 68 mm × 47 mm × 208 mm

Product contents (typical): NRPC18 power standard, precision attenuator, precision termination (for voltage probe cal paths per brochure)

Typical System Companions

Specifications

PARAMETER	VALUE
Power meter	R&S*NRP2 or R&S*NRX (+ options)
Signal generator example for NRPC18	R&S*SMA100B with appropriate frequency option
VNA for gamma correction	e.g. ZNB8/ZNB20 + N calibration kit

Standard Operating Conditions

Follow Recal+ sensor-specific procedures. Careful connector torque determines residual uncertainty after gamma correction.

Operational Notes

Unlike higher-frequency NRPC models, the NRPC18 test port is not user-exchangeable in the same way-protect theNport. Use NRPC18-B1 for daily verification of the standard/splitter path.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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

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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.