

**Aumictech**

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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz ZV-Z21 18GHz 50 Ohm N Type Calibration Kit

The Rohde & Schwarz ZV-Z21 is a calibration kit designed for network analyzers, operating up to 18 GHz with 50 Ohm impedance and N-type connectors. It provides the necessary standards for accurate calibration of test setups, ensuring precise measurements in RF and microwave applications.



MODEL

Rohde & Schwarz ZV-Z21

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ZV-Z21

LISTING

<https://aumictechlabs.com/products/zv-z21-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz ZV-Z21 is a precision calibration kit for vector network analyzers, delivering the TOSM standards required for accurate RF and microwave measurements to 18 GHz. Built around 50 Ohm impedance and Type-N connectors, It has the mechanical stability and repeatability essential for high-accuracy error correction in demanding measurement environments. Technical Specifications Frequency Range: DC to 18 GHz Impedance: 50 Ohm Connector Type: Type-N (female) Standards Included: Through (T) Open (O) Short (S) Match/Load (M) Connector Configuration: Male and female connectors available for both insertable and non-insertable calibration scenarios. Key Features Each standard is individually characterized with S-parameter data, enabling data-based error correction models in networked analyzers for enhanced measurement accuracy. The kit ships with a torque wrench and

counterholder to ensure proper tightening and mechanical contact repeatability. A USB stick containing calibration data is typically included. Mechanical design emphasizes stability and reproducibility - critical parameters for eliminating systematic errors in VNA calibration workflows. The balanced male/female connector set accommodates both direct-insertable calibration and setups requiring adapters or indirect connections.

Typical Applications Primary use spans R&D laboratory work in RF and microwave characterization. The kit supports high-accuracy calibration across component testing, amplifier characterization, filter measurements, and impedance analysis workflows where systematic error correction is non-negotiable.

Compatibility & Integration Designed for Rohde & Schwarz vector network analyzer platforms including the ZVA, ZVB, and ZVT series. The kit is compatible with uncertainty analysis workflows using the R&S ZNA-K50(P) option, enabling traceable measurement confidence statements. Part of the R&S ZV-Zxx calibration standard family, it integrates directly into existing R&S measurement ecosystems without adapter interfaces.

ZVZ21 Characteristics / Specifications

PARAMETER	VALUE
Model	ZV Z21
Manufacturer	Rohde & Schwarz
Instrument Type	Mechanical VNA Calibration Kit
Alias	R&S ZV-Z21; 1085.7099.02
Calibration Type	TOSM (Through Open Short Match)
Impedance	50 ohm
Frequency Range	DC (0 Hz) to 18 GHz
Connector Family	typeNConnector Sex Listing: typeNfemale (kit class also uses male standards)
DUT Interface	typeNForm Factor: benchtop cal kit (no mains)
Input Power	not required
Life Cycle	out of production (about June 1999)
Successor Model	ZV Z270 5011.6536.02
Successor Frequency	0 Hz to 18 GHz
Successor Connectors	typeNfemale and male
Successor Standards	open, short, match, through each sex
Successor Operating Temperature	plus 18 C to plus 28 C
Successor Permissible Temperature	0 C to plus 50 C
Successor Storage Temperature	minus 40 C to plus 70 C
Successor Calibration Interval	1 year
Successor Kit Dimensions Class	400 mm x 70 mm x 260 mm class
Successor Kit Mass Class	about 1.4 kg (standards) / case heavier
TypicalINKit Contents Class	open m/f, short m/f, match m/f, through m-m f-f m-f
Use Case	12 term TOSM and TOM
VNA Families	ZVR, ZVC, later ZVA/ZNB withNports
Sliding Match	available as R&S supplementary standard (family kits)

PARAMETER	VALUE
Characterization	individual kit data on floppy for ZVR era kits
Torque	useNtorque wrench (supplied with successor kits) Notes
Verified identity	50 ohmNTOSM, DC to 18 GHz, R&S ZV-Z21 (1085.7099.02). Detailed effective system data published for successor ZV-Z270 are not copied here as ZV-Z21 numbers. Confirm which sexes and whether characterization disk is present. InspectNmating surfaces before use.
Storage temperature	minus 40 C to plus 70 C
Operating temperature	plus 18 C to plus 28 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to plus 70 C
Operating temperature	plus 18 C to plus 28 C
Operating Temperature	plus 18 C to plus 28 C
Successor Permissible Temperature	0 C to plus 50 C
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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	
Technical Specifications	
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Frequency Range	DC (0 Hz) to 18 GHz
Connector Family	type N
Connector Sex Listing	type N female (kit class also uses male standards)
DUT Interface	type N
Form Factor	benchtop cal kit (no mains)
Input Power	not required
Life Cycle	out of production (about June 1999)
Successor Model	ZV Z270 5011.6536.02
Successor Frequency	0 Hz to 18 GHz
Successor Connectors	type N female and male
Successor Standards	open, short, match, through each sex
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Successor Calibration Interval	1 year
Successor Kit Dimensions Class	400 mm x 70 mm x 260 mm class
Successor Kit Mass Class	about 1.4 kg (standards) / case heavier
Typical N Kit Contents Class	open m/f, short m/f, match m/f, through m-m f-f m-f
Use Case	12 term TOSM and TOM
VNA Families	ZVR, ZVC, later ZVA/ZNB with N ports

PARAMETER	VALUE
Sliding Match	available as R&S supplementary standard (family kits)
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Torque	use N torque wrench (supplied with successor kits)

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PARAMETER

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Torque

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Notes

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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.