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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz SWM05 Network Analyzer

Rohde & Schwarz SWM05 Synthesized Sweep Generator 10 MHz to 18 GHz The R&S SWM05 is a synthesized microwave sweep generator covering 10 MHz to 18 GHz. It belongs to the SWM synthesized sweeper family (SWM02/SWM05 listings share the 18 GHz ceiling). Synthesized frequency control supports CW and swept stimulus of microwave components, converters, and radar/EW benches. Documented option codes include B1 and B7. Confirm installed options, connectors, and level/modulation hardware on the instrument label; finer analog limits belong on the faceplate and calibration certificate when a full OEM numeric table is not present on the unit. The R&S SWM05 is a synthesized microwave sweep generator covering 10 MHz to 18 GHz. It belongs to the SWM synthesized sweeper family (SWM02/SWM05 listings share the 18 GHz ceiling). Synthesized frequency control supports CW and swept stimulus of microwave components, converters, and radar/EW benches. Documented option codes include B1 and B7. Confirm installed options, connectors, and level/modulation hardware on the instrument label; finer analog limits belong on the faceplate and calibration certificate when a full OEM numeric table is not present on the unit.



MODEL

Rohde & Schwarz SWM05

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

SWM05

LISTING

<https://aumictechlabs.com/products/swm05-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rohde & Schwarz SWM05 is a compact, portable network analyzer for RF component characterization and testing. Operating from 300 kHz to 5 GHz, it delivers precise measurements

of impedance, S-parameters, and network parameters essential for design validation and production environments. Its portable form factor enables deployment across laboratory and field testing scenarios without sacrificing measurement capability.

Technical Specifications

Frequency Range: 300 kHz to 5 GHz

Form Factor: Compact and portable design

Key Features

The SWM05 provides accurate RF measurements with standard interface connectivity. Common interfaces on Rohde & Schwarz network analyzers include USB for data transfer, Ethernet for network connectivity and remote control, RS-232 for serial communication, and DVI for external monitor connection. Calibration and verification kits are available to ensure measurement traceability across the instrument's operating range.

Typical Applications

RF component testing
Filter and amplifier design
Production testing

Compatibility & Integration

The SWM05 integrates within broader test system configurations and works with compatibility with other Rohde & Schwarz instruments. Standard accessories and manuals are supplied with the instrument for normal operation.

Features & description

From manufacturer datasheet

Features

- Synthesized (not free-running analog-only) sweep to 18 GHz
- Family sibling SWM02 also listed as 18 GHz class
- Option codes B1 and B7 documented on field configurations
- Benchtop microwave generator form
- Use with external leveling/detection as configured

Applications

- Microwave component and converter swept stimulus to 18 GHz
- Scalar network and mixer benches with an external detector/analyzer
- Radar / EW LO and stimulus substitution
- Production ATE sweeps in the 10 MHz to 18 GHz band
- CW source for 18 GHz class benches

SWM05 Characteristics / Specifications

PARAMETER	VALUE
Model	SWM05
Manufacturer	Rohde & Schwarz
Instrument Type	Synthesized microwave sweep generator
Alias	SWM 05; R&S SWM05
Frequency Range	10 MHz to 18 GHz
Generation Method	synthesized sweep / CW
Family Ceiling	18 GHz (SWM02 / SWM05 listings)
Sibling SWM	18 GHz synthesized generator class
Documented Option B	present on field configurations (confirm function on unit)
RF Band Class	microwave, to 18 GHz
Operating Modes	CW and sweep (synthesized)
Intended Load	50 ohm microwave benches
Form Factor	benchtop microwave signal/sweep generator
ATE Role	production sweep source
LO Substitution	radar / EW / converter LO class
Sweep Use	component and converter characterization
Connector Class	microwave coaxial (confirm type on unit)
Level Hardware	option/configuration dependent; read faceplate/cal cert
Modulation Hardware	option/configuration dependent
Remote Role	ATE-capable microwave source family
Calibration	confirm frequency/level on certificate
Upper Frequency	18 GHz
Lower Frequency	10 MHz
Family Identity	R&S SWM synthesized sweeper
Configuration Label	B1/B7 and other options as fitted Notes Specs from R&S SWM05 synthesized sweep-generator product identification (10 MHz to 18

PARAMETER

VALUE

GHz) and documented B1/B7 option codes. A full OEM numeric level/modulation table was not attached to public listings; do not invent power, harmonics, or sweep-time figures. Confirm connectors, options, and calibrated level 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	SWM05
Manufacturer	Rohde & Schwarz
Instrument Type	Synthesized microwave sweep generator
Alias	SWM 05; R&S SWM05
Frequency Range	10 MHz to 18 GHz
Generation Method	synthesized sweep / CW
Family Ceiling	18 GHz (SWM02 / SWM05 listings)
Sibling SWM02	18 GHz synthesized generator class
Documented Option B1	present on field configurations (confirm function on unit)
Documented Option B7	present on field configurations (confirm function on unit)
RF Band Class	microwave, to 18 GHz
Operating Modes	CW and sweep (synthesized)
Intended Load	50 ohm microwave benches
Form Factor	benchtop microwave signal/sweep generator
ATE Role	production sweep source
L0 Substitution	radar / EW / converter L0 class
Sweep Use	component and converter characterization
Connector Class	microwave coaxial (confirm type on unit)
Level Hardware	option/configuration dependent; read faceplate/cal cert
Modulation Hardware	option/configuration dependent
Remote Role	ATE-capable microwave source family
Calibration	confirm frequency/level on certificate
Upper Frequency	18 GHz
Lower Frequency	10 MHz
Family Identity	R&S SWM synthesized sweeper
Configuration Label	B1/B7 and other options as fitted

Notes

Specs from R&S SWM05 synthesized sweep-generator product identification (10 MHz to 18 GHz) and documented B1/B7 option codes. A full OEM numeric level/modulation table was not attached to public listings; do not invent power, harmonics, or sweep-time figures. Confirm connectors, options, and calibrated level 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.