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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz SMR60 10MHz to 60GHz Signal Generator

Rohde & Schwarz SMR60 Microwave Signal Generator 10 MHz to 60 GHz The R&S SMR60 is the 60 GHz member of the SMR microwave signal generator family (order 1134.9008.60). Base coverage is 1 GHz to 60 GHz; option SMR-B11 extends the lower limit to 10 MHz. It is a CW generator with standard pulse modulation, digital RF and level sweep, and 50 stored setups. Levelled output is specified as 0 dBm at 60 GHz. The RF port is a 1.85 mm (V) female class connector. Optional analog sweep, AM/FM, IF upconverter, and attenuator follow the SMR option set. The R&S SMR60 is the 60 GHz member of the SMR microwave signal generator family (order 1134.9008.60). Base coverage is 1 GHz to 60 GHz; option SMR-B11 extends the lower limit to 10 MHz. It is a CW generator with standard pulse modulation, digital RF and level sweep, and 50 stored setups. Levelled output is specified as 0 dBm at 60 GHz. The RF port is a 1.85 mm (V) female class connector. Optional analog sweep, AM/FM, IF upconverter, and attenuator follow the SMR option set.



MODEL

Rohde & Schwarz SMR60

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

SMR60

LISTING

<https://aumictechlabs.com/products/smr60-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Rohde & Schwarz SMR60 is a signal generator spanning 10 MHz to 60 GHz, delivering exceptional signal quality with precise frequency control and amplitude stability. It generates

complex modulated signals across a suite of digital and analog modulation formats, making it essential for RF and microwave testing in research, development, and production environments.

Technical Specifications

- Frequency Range: 10 MHz to 60 GHz
- Output Impedance: 50 Ohms

Key Features

- Supports AM, FM, PM, FSK, MSK, PSK, and QAM modulation types
- Frequency and amplitude sweep modes
- SCPI-based remote control and programming
- Multiple connectivity options for laboratory integration

Interfaces & Control

- GPIB, LAN (Ethernet), and USB connectivity
- SCPI command compatibility for instrument automation

Typical Applications

The SMR60 serves RF and microwave laboratories requiring precise signal generation for component characterization, receiver testing, transmitter validation, and modulation performance assessment across millimeter-wave frequencies.

Features & description

From manufacturer datasheet

Features

- Highest-frequency SMR (sibling SMR50 to 50 GHz, order 1134.9008.50)
- Standard pulse modulator; optional SMR-B14 pulse generator
- Digital RF and level sweep with 10 user frequency markers
- Optional SMR-B5 AM/FM/scan; SMR-B4 analog ramp sweep
- 3-year calibration cycle; IEC IEEE / SCPI remote control

Applications

- V-band CW and pulse stimulus to 60 GHz
- Scalar network analysis and tracking-generator use
- Upconversion of digitally modulated IF (SMR-B23/B25 class) toward 60 GHz
- Radar, satcom, and mm-wave component work
- Production and R&D microwave racks

SMR60 Characteristics / Specifications

PARAMETER	VALUE
Model	SMR60
Manufacturer	Rohde & Schwarz
Instrument Type	Microwave signal generator
Alias	SMR 60; R&S SMR60
Order Number	1134.9008.60
Frequency Range Standard	1 GHz to 60 GHz
Frequency Range with SMR B	10 MHz to 60 GHz
Frequency Resolution Standard	1 kHz (SMR family)
Frequency Resolution with SMR B	0.1 Hz (SMR family)
Levelled Output at 60 GHz	0 dBm
Minimum Level Family Standard	minus 20 dBm
Minimum Level Family with Attenuator	minus 130 dBm class
Level Resolution Family	0.1 dB or 0.01 dB selectable
Output Impedance	50 ohm
RF Connector	1.85 mm female (V)
Pulse Modulation	standard, on/off greater than 80 dB (SMR family)
Pulse Rise Fall Family	less than 12 ns above 450 MHz
SSB Phase Noise Family at 10 GHz	less than minus 83 dBc (1 Hz) at 10 kHz offset
Reference Aging Standard Family	1e-6 per year
Reference Aging OCXO SMR B	less than 1e-7 per year
Reference Output Family	10 MHz, 1 V rms EMF, 50 ohm
Stored Setups	50
Sweep Markers	10 freely selectable
Sweep Modes	automatic, single shot, manual, externally triggered, linear or logarithmic
IF Upconverter Options	SMR-B23 DC to 700 MHz; SMR-B25 40 MHz to 6 GHz class

PARAMETER	VALUE
Attenuator Options	SMR-B15 20 GHz; SMR-B17 40 GHz class (confirm 60 GHz fit)
Rear Connector Options	SMR-B19 / SMR-B20
Sibling SMR50 Order	1134.9008.50, 1 GHz to 50 GHz
Operating Temperature Family	0 C to +55 C
Weight Class	about 19 kg (42 lb) listing class
Mains Family	100 to 120 V / 200 to 240 V autoranging
Calibration Cycle	3 years Notes Specs from the R&S SMR50/60 operating manual identity tables and SMR family data sheet, plus reseller levelled-power note of 0 dBm at 60 GHz. Confirm 1.85 mm connector condition, B11 low-band option, and which attenuator/IF options are factory-fitted. Do not apply SMR40 2.92 mm adapter data to this model.
Operating temperature	Family: 0 C to +55 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Family: 0 C to +55 C
Operating Temperature	Family: 0 C to +55 C
Operating Temperature Family	0 C to +55 C
Weight Class	about 19 kg (42 lb) listing class
Mains Family	100 to 120 V / 200 to 240 V autoranging
Calibration Cycle	3 years Notes Specs from the R&S SMR50/60 operating manual identity tables and SMR family data sheet, plus reseller levelled-power note of 0 dBm at 60 GHz. Confirm 1.85 mm connector condition, B11 low-band option, and which attenuator/IF options are factory-fitted. Do not apply SMR40 2.92 mm adapter data to this model.

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	
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PARAMETER	VALUE
Model	SMR60
Manufacturer	Rohde & Schwarz
Instrument Type	Microwave signal generator
Alias	SMR 60; R&S SMR60
Order Number	1134.9008.60
Frequency Range Standard	1 GHz to 60 GHz
Frequency Range with SMR B11	10 MHz to 60 GHz
Frequency Resolution Standard	1 kHz (SMR family)
Frequency Resolution with SMR B3	0.1 Hz (SMR family)
Levelled Output at 60 GHz	0 dBm
Minimum Level Family Standard	minus 20 dBm
Minimum Level Family with Attenuator	minus 130 dBm class
Level Resolution Family	0.1 dB or 0.01 dB selectable
Output Impedance	50 ohm
RF Connector	1.85 mm female (V)
Pulse Modulation	standard, on/off greater than 80 dB (SMR family)
Pulse Rise Fall Family	less than 12 ns above 450 MHz
SSB Phase Noise Family at 10 GHz	less than minus 83 dBc (1 Hz) at 10 kHz offset
Reference Aging Standard Family	1e-6 per year
Reference Aging OCXO SMR B1	less than 1e-7 per year
Reference Output Family	10 MHz, 1 V rms EMF, 50 ohm
Stored Setups	50
Sweep Markers	10 freely selectable
Sweep Modes	automatic, single shot, manual, externally triggered, linear or logarithmic
IF Upconverter Options	SMR-B23 DC to 700 MHz; SMR-B25 40 MHz to 6 GHz class

PARAMETER	VALUE
Attenuator Options	SMR-B15 20 GHz; SMR-B17 40 GHz class (confirm 60 GHz fit)
Rear Connector Options	SMR-B19 / SMR-B20
Sibling SMR50 Order	1134.9008.50, 1 GHz to 50 GHz
Operating Temperature Family	0 C to +55 C
Weight Class	about 19 kg (42 lb) listing class
Mains Family	100 to 120 V / 200 to 240 V autoranging
Calibration Cycle	3 years

Notes

Specs from the R&S SMR50/60 operating manual identity tables and SMR family data sheet, plus reseller levelled-power note of 0 dBm at 60 GHz. Confirm 1.85 mm connector condition, B11 low-band option, and which attenuator/IF options are factory-fitted. Do not apply SMR40 2.92 mm adapter data to this model.

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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NIST-traceable calibration · SAM registered ·
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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.