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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68169B Synthesized Sweep Generator, 0.01 to 40.0 GHz

Anritsu 68169B Synthesized Sweep Generator 10 MHz to 40 GHz The Anritsu 68169B is a synthesized sweep generator covering 10 MHz to 40 GHz in the 68100B family. It provides phase-locked CW plus analog and step sweeps with banded leveled power for network analysis and ATE through K-connector millimeter-wave bands. The Anritsu 68169B is a synthesized sweep generator covering 10 MHz to 40 GHz in the 68100B family. It provides phase-locked CW plus analog and step sweeps with banded leveled power for network analysis and ATE through K-connector millimeter-wave bands.



MODEL

Anritsu 68169B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68169B

LISTING

<https://aumictechlabs.com/products/68169b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68169B Synthesized Sweep Generator delivers precision RF and microwave signal generation across 0.01 to 40.0 GHz, with optional waveguide extensions to 110 GHz. Built for R&D, production, and ATE environments, it combines ultra-low phase noise, programmable sweep modes, and integrated modulation for component characterization and system validation. Technical Specifications Frequency Range 0.01 to 40.0 GHz (coaxial output) Extendable to 65 GHz with specific configurations Waveguide extensions available to 110 GHz Minimum sweep width: 1 kHz (0.1 Hz with Option 11) Output Power Maximum: +13 dBm standard; +17 dBm

with Option 15 (High Power) Minimum: -15 dBm or -125 dBm Resolution: 0.01 dB Accuracy: ± 2 dB Output impedance: 50 Ohm User-configurable level flatness correction Phase Noise SSB phase noise: -100 dBc at 10 kHz offset from 10 GHz Range: -96 dBc/Hz (minimum) to -60 dBc/Hz (maximum) Switching Performance Output level switching: 20 ms Step switching: <15 ms + 1 ms/GHz or <40 ms typical maximum Alternate/manual sweep switching: <40 ms Spurious Signals Harmonics: -40 dBc Non-harmonics: -40 dBc Key Features Modulation Capability Internal AM, FM, phase, and pulse modulation External or internal signal sources for AM/FM Seven internal waveforms including Gaussian noise and user-defined arbitrary waveforms Pulse modes: doublet, triplet, quadruplet configurations User-downloadable complex modulation support Sweep Modes Step, analog, power, alternate, and master/slave sweep modes CW or step sweep operation Manual mode with phase-locked frequency adjustment Programmable frequency agility: up to 1000 non-sequential frequencies via GPIB Step sweep: 1 to $10,000$ steps; 1 kHz minimum step size (0.1 Hz with Option 11) Dwell time per step: 1 ms to 99 seconds Typical Applications Component and subsystem testing, automated production test, receiver/transmitter characterization, phase noise measurement, modulation fidelity assessment. Compatibility & Integration IEEE-488 GPIB interface enables remote instrument control and integration into automated test systems.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 10 MHz to 40 GHz • Synthesized sweep with high resolution phase lock • Standard 1 kHz resolution; Option 11 for 0.1 Hz • Banded leveled power per 6XX69 tables • Optional Option 15 high power and Option 16 oven • IEEE-488 GPIB remote programming

Applications

- Analog and step sweep stimulus 10 MHz to 40 GHz • Scalar network analyzer and component sweep testing • ATE microwave source with GPIB automation • LO substitution with sweep capability in this band

High power Option 15 greater than 20 to 40 GHz: plus 6 dBm

Output power resolution: 0.01 dB Internal time base aging: less than 2×10^{-8} /day Internal time base aging Option 16: less than 5×10^{-10} /day SSB phase noise 68XXXB at 20 GHz 10 kHz offset: -78 dBc/Hz SSB phase noise 68XXXB at 40 GHz 10 kHz offset: -72 dBc/Hz Harmonics family typical: -50 to -60 dBc by band Nonharmonic spurious typical: -60 dBc Sweep modes: analog and step sweep Remote control: IEEE 488 GPIB Dimensions: about 5.25 inHx 16.875 inWx 23.5 inD Weight: about 50 lb Related CW model: 68069B Related signal generator: 68269B Related sweep signal model: 68369B Related ultra low noise sweep: 69169A RF connector class: TypeKfemale for models to 40 GHz Notes Power rows from Anritsu 68000B/69000A datasheet 6XX69 tables for 68169B (0.01–40 GHz). Confirm Option 15/16 and RF connector on the unit.

68169B Characteristics / Specifications

PARAMETER	VALUE
Model	68169B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Sweep Generator
Alias	68169B; Anritsu 68169B
Frequency range	10 MHz to 40 GHz
Family	68100B Synthesized Sweep Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz
Leveled output 0.01 to less than 2 GHz	plus 13 dBm
Leveled output 2 to 20 GHz	plus 9 dBm
Leveled output greater than 20 to 40 GHz	plus 6 dBm
Leveled with step attenuator 0.01 to less than 2 GHz	plus 11 dBm
Leveled with step attenuator 2 to 20 GHz	plus 7 dBm
Leveled with step attenuator greater than 20 to 40 GHz	plus 3 dBm
High power Option 15 0.01 to 20 GHz	plus 13 dBm
High power Option 15 greater than 20 to 40 GHz	plus 6 dBm
Output power resolution	0.01 dB
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option	less than 5×10^{-10} /day
SSB phase noise 68XXXB at 20 GHz 10 kHz offset	-78 dBc/Hz
SSB phase noise 68XXXB at 40 GHz 10 kHz offset	-72 dBc/Hz
Harmonics family typical	-50 to -60 dBc by band

PARAMETER	VALUE
Nonharmonic spurious typical	-60 dBc
Sweep modes	analog and step sweep
Remote control	IEEE 488 GPIB
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
Related CW model	68069B
Related signal generator	68269B
Related sweep signal model	68369B
Related ultra low noise sweep	69169A
RF connector class	TypeKfemale for models to 40 GHz Notes Power rows from Anritsu 68000B/69000A datasheet 6XX69 tables for 68169B (0.01–40 GHz). Confirm Option 15/16 and RF connector 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	
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Harmonics family typical	-50 to -60 dBc by band
Nonharmonic spurious typical	-60 dBc
Sweep modes	analog and step sweep
Remote control	IEEE 488 GPIB
Dimensions	about 5.25 in H x 16.875 in W x 23.5 in D
Weight	about 50 lb
Related CW model	68069B
Related signal generator	68269B
Related sweep signal model	68369B
Related ultra low noise sweep	69169A
RF connector class	Type K female for models to 40 GHz
Specifications	
PARAMETER	VALUE
Model	68169B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Sweep Generator
Alias	68169B; Anritsu 68169B
Frequency range	10 MHz to 40 GHz
Family	68100B Synthesized Sweep Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz
Levelled output 0.01 to less than 2 GHz: plus 13 dBm	
Levelled output 2 to 20 GHz: plus 9 dBm	
Levelled output greater than 20 to 40 GHz: plus 6 dBm	
Levelled with step attenuator 0.01 to less than 2 GHz: plus 11 dBm	
Levelled with step attenuator 2 to 20 GHz: plus 7 dBm	
Levelled with step attenuator greater than 20 to 40 GHz: plus 3 dBm	
High power Option 15 0.01 to 20 GHz: plus 13 dBm	
High power Option 15 greater than 20 to 40 GHz: plus 6 dBm	

Specifications

PARAMETER	VALUE
Output power resolution	0.01 dB
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option 16	less than 5×10^{-10} /day

SSB phase noise 68XXXB at 20 GHz 10 kHz offset: -78 dBc/Hz

SSB phase noise 68XXXB at 40 GHz 10 kHz offset: -72 dBc/Hz

Specifications

PARAMETER	VALUE
Harmonics family typical	-50 to -60 dBc by band
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Sweep modes	analog and step sweep
Remote control	IEEE 488 GPIB
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
Related CW model	68069B
Related signal generator	68269B
Related sweep signal model	68369B
Related ultra low noise sweep	69169A
RF connector class	TypeKfemale for models to 40 GHz

Notes

Power rows from Anritsu 68000B/69000A datasheet 6XX69 tables for 68169B (0.01-40 GHz). Confirm Option 15/16 and RF connector 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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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.