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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68369B Synthesized Sweep/Signal Generator, 0.01 GHz to 40 GHz

Anritsu 68369B Synthesized Sweep/Signal Generator 10 MHz to 40 GHz The Anritsu 68369B is a synthesized sweep/signal generator covering 0.01 GHz to 40 GHz in the 68000B synthesizer family. It combines CW, analog/step sweep, and comprehensive modulation for broadband signal simulation and swept measurements to 40 GHz as the 6XX69B sweep/signal member. The Anritsu 68369B is a synthesized sweep/signal generator covering 0.01 GHz to 40 GHz in the 68000B synthesizer family. It combines CW, analog/step sweep, and comprehensive modulation for broadband signal simulation and swept measurements to 40 GHz as the 6XX69B sweep/signal member.



MODEL

Anritsu 68369B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68369B

LISTING

<https://aumictechlabs.com/products/68369b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68369B is a microprocessor-based synthesized sweep/signal generator covering 0.01 GHz to 40 GHz, engineered for RF system development, validation, and laboratory characterization. It delivers discrete CW frequencies and analog or phase-locked step sweeps with high output accuracy and low spurious signals across demanding frequency ranges. Technical Specifications Frequency Coverage: 0.01 GHz to 40 GHz with 1 kHz resolution

(0.1 Hz with Option 11). Output Power: 0.01–2.0 GHz: +13.0 dBm 2.0–20.0 GHz: +9.0 dBm 20.0–40.0 GHz: +6.0 dBm Maximum: +17 dBm; Minimum: –125 dBm Phase Noise: Ultra-low SSB phase noise of –100 dBc at 10 kHz offset from 10 GHz. Time Base Stability: Internal: $<2 \times 10^{-8}$ /day aging; $<2 \times 10^{-8}/^{\circ}\text{C}$ over 0–55 $^{\circ}\text{C}$ (enhanced to $<5 \times 10^{-10}$ /day and $<2 \times 10^{-10}/^{\circ}\text{C}$ with Option 16). External 10 MHz reference input: 0 to +10 dBm. 10 MHz reference output: 0.5 Vp-p into 50 Ω , AC coupled. CW Mode: Twenty presettable frequencies (F0–F9, M0–M9) with <40 ms switching time to within 1 kHz. Analog Sweep Mode: Sweep width from 1 MHz to full range; sweep time 30 ms to 99 seconds; frequency accuracy the lesser of 30 MHz or (2 MHz + 0.25% of sweep width) at speeds ≤ 50 MHz/ms. Phase-Locked Step Sweep Mode: Up to 10,000 steps; step size 1 kHz to full range (0.1 Hz with Option 11); dwell time 1 ms to 99 seconds; switching time <15 ms + 1 ms/GHz or <40 ms, whichever is less. Alternate and Manual Sweep Modes: Alternate sweeps between two ranges with independent power levels; manual mode provides stepped, phase-locked frequency adjustment. Modulation: Internal AM, FM, phase, and pulse modulation; user-downloaded complex modulation. Key Features Twenty independent, presettable CW frequency memories Sub-kilohertz frequency resolution with enhanced stability options Low phase noise for precision signal characterization Variable step count and dwell time in step sweep mode Dual-sweep capability with independent power assignment Interface IEEE-488 GPIB for local and remote instrument control.

Features & description

From manufacturer datasheet

Features

- Coverage 0.01 to 40 GHz
- Analog and phase locked step sweep
- Internal/external AM, FM, pulse; optional phase modulation
- 68B family excellent phase noise at moderate cost
- List sweep with large frequency/power tables
- Optional 0.1 Hz resolution and high stability time base
- GPIB remote control

Applications

- Broadband swept network analysis to 40 GHz
- AM/FM/pulse modulated signal simulation
- ATE microwave and mmWave stimulus
- Radar and EW receiver testing
- CW LO use when modulation and sweep are idle

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

Output power resolution: 0.01 dB Frequency resolution standard: 1 kHz Frequency resolution Option 11: 0.1 Hz CW accuracy: same as internal or external 10 MHz time base Internal time base aging: less than 2×10^{-8} /day Internal time base aging Option 16: less than 5×10^{-10} /day Analog sweep width: 1 MHz to full range Analog sweep time: 30 ms to 99 s Step sweep steps: 1 to 10000 List sweep points: up to 2000 per table Minimum leveled power without attenuator: to -15 dBm (-20 dBm typical) Minimum leveled power with attenuator: to -120 dBm class SSB phase noise 68XXXB at 20 GHz 10 kHz: -78 dBc/Hz SSB phase noise 68XXXB at 40 GHz 10 kHz: -72 dBc/Hz Remote control: GPIB Dimensions: 133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg RF output connector: TypeKfemale Related CW model: 68069B Related sweep only: 68169B Related signal only: 68269B Related ultra low noise sweep signal: 69369A Notes Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 6XX69 power tables for 68369B (0.01–40 GHz). Confirm options and leveled power on the unit.

68369B Characteristics / Specifications

PARAMETER	VALUE
Model	68369B
Manufacturer	Anritsu
Instrument Type	Synthesized Sweep/Signal Generator
Alias	68369B; Anritsu 68369B
Frequency range	0.01 GHz to 40 GHz
Family	68000B synthesizers
Leveled power 0.01 to less than 2 GHz	+13 dBm
Leveled power 2 to 20 GHz	+9 dBm
Leveled power greater than 20 to 40 GHz	+6 dBm
Leveled power with step attenuator 0.01 to less than 2 GHz	+11 dBm
Leveled power with step attenuator 2 to 20 GHz	+7 dBm
Leveled power with step attenuator greater than 20 to 40 GHz	+3 dBm
High power Option 15 0.01 to 20 GHz	+13 dBm
High power Option 15 greater than 20 to 40 GHz	+6 dBm
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz
Frequency resolution Option	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option	less than 5×10^{-10} /day
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep steps	1 to 10000

PARAMETER	VALUE
List sweep points	up to 2000 per table
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -120 dBm class
SSB phase noise 68XXXB at 20 GHz 10 kHz	-78 dBc/Hz
SSB phase noise 68XXXB at 40 GHz 10 kHz	-72 dBc/Hz
Remote control	GPIB
Dimensions	133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg
RF output connector	TypeKfemale
Related CW model	68069B
Related sweep only	68169B
Related signal only	68269B
Related ultra low noise sweep signal	69369A Notes Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 6XX69 power tables for 68369B (0.01–40 GHz). Confirm options and leveled power 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
Remote control	GPIB
Dimensions	133 mm H x 429 mm W x 597 mm D
Mass	less than or equal to 23 kg
RF output connector	Type K female
Related CW model	68069B
Related sweep only	68169B
Related signal only	68269B
Related ultra low noise sweep signal	69369A
Specifications	
PARAMETER	VALUE
Model	68369B
Manufacturer	Anritsu
Instrument Type	Synthesized Sweep/Signal Generator
Alias	68369B; Anritsu 68369B
Frequency range	0.01 GHz to 40 GHz
Family	68000B synthesizers
Levelled power 0.01 to less than 2 GHz: +13 dBm Levelled power 2 to 20 GHz: +9 dBm Levelled power greater than 20 to 40 GHz: +6 dBm Levelled power with step attenuator 0.01 to less than 2 GHz: +11 dBm Levelled power with step attenuator 2 to 20 GHz: +7 dBm Levelled power with step attenuator greater than 20 to 40 GHz: +3 dBm High power Option 15 0.01 to 20 GHz: +13 dBm High power Option 15 greater than 20 to 40 GHz: +6 dBm	
Specifications	
PARAMETER	VALUE
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz

PARAMETER	VALUE
Frequency resolution Option 11	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option 16	less than 5×10^{-10} /day
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep steps	1 to 10000
List sweep points	up to 2000 per table
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -120 dBm class

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

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

Specifications

PARAMETER	VALUE
Remote control	GPIO
Dimensions	133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg
RF output connector	TypeKfemale
Related CW model	68069B
Related sweep only	68169B
Related signal only	68269B
Related ultra low noise sweep signal	69369A

Notes

Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 6XX69 power tables for 68369B (0.01-40 GHz). Confirm options and leveled power 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.