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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68159B Synthesized Sweep Generator, 0.01 to 65 GHz

Anritsu 68159B Synthesized Sweep Generator 10 MHz to 26.5 GHz The Anritsu 68159B is a microprocessor-based synthesized sweep generator covering 10 MHz to 26.5 GHz in the 681XXB family. It provides phase-locked CW plus analog and step sweeps with front-panel LCD and IEEE-488 GPIB control for broadband microwave source applications. Related 68059B is CW-only; 68259B adds full signal-generator modulation. The Anritsu 68159B is a microprocessor-based synthesized sweep generator covering 10 MHz to 26.5 GHz in the 681XXB family. It provides phase-locked CW plus analog and step sweeps with front-panel LCD and IEEE-488 GPIB control for broadband microwave source applications. Related 68059B is CW-only; 68259B adds full signal-generator modulation.



MODEL

Anritsu 68159B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68159B

LISTING

<https://aumictechlabs.com/products/68159b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 68159B is a synthesized sweep generator delivering precise signal generation from 0.01 GHz to 65 GHz. Built for RF system testing, component analysis, and signal path characterization across telecommunications, aerospace, and defense applications, it combines wide frequency coverage with 0.01 Hz resolution and output power spanning -110 dBm to +20 dBm. Technical Specifications Frequency & Output Frequency range: 0.01 GHz to 65 GHz Frequency resolution: 0.01 Hz Output power range: -110 dBm to +20 dBm Maximum output power: +13 dBm Power resolution: 0.01 dB Output accuracy: 2 dB Output impedance: 50 Ohm Output level switching time: 20 ms Signal Purity SSB phase noise: -96 to -63

dBc/Hz Phase noise (typical): -120 dBc/Hz at 10 kHz offset Harmonics: -40 dBc Non-harmonics: -40 dBc Spurious: 80 dB, rise/fall time <10 ns User-downloaded complex modulation: Supported

Key Features

Sweep Capability Sweep modes: Step, analog, power, alternate, and master/slave Programmable frequency agility: Up to 1000 non-sequential frequencies via GPIB Dwell time per step: 1 ms to 99 seconds Sweep width: 1 kHz to full range (0.1 Hz with Option 11) Manual sweep with phase-locked frequency adjustment Alternate sweep between two ranges with independent power levels

Control & Integration GPIB, USB, and LAN connectivity Fully remote-controllable via IEEE-488 GPIB Intuitive user interface for setup and operation

Typical Applications Component characterization, RF filter testing, receiver sensitivity analysis, amplifier gain measurement, and system-level signal path validation in satellite, cellular, and defense systems.

Features & description

From manufacturer datasheet

Features

• Frequency coverage 10 MHz to 26.5 GHz • Synthesized sweep with high-resolution phase lock • Standard 1 kHz resolution; Option 11 for 0.1 Hz • Banded leveled power per 6XX59 tables • Optional Option 15 high power and Option 16 oven • IEEE-488 GPIB remote programming

Applications

• Analog and step sweep stimulus 10 MHz to 26.5 GHz • Scalar network analyzer and filter/amplifier sweep testing • ATE microwave source with GPIB automation • LO substitution with sweep through K-band

High power Option 15 greater than 20 to 26.5 GHz: +10 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 Sweep modes: analog and step sweep Remote control: IEEE 488 GPIB Display: Dot matrix LCD Dimensions: about 5.25 inHx 16.875 inWx 23.5 inD Weight: about 50 lb Related CW model: 68059B Related signal generator: 68259B Related sweep signal model: 68359B Related ultra low noise sweep: 69159A AC power: 90 to 132 or 180 to 264 Vac Power consumption: about 400 VA Harmonics family typical: -50 to -60 dBc Nonharmonic spurious typical: -60 dBc Notes Power rows from Anritsu 68000B/69000A datasheet 6XX59 tables for 68159B (0.01–26.5 GHz). Confirm Option 15/16 and RF connector on the unit.

68159B Characteristics / Specifications

PARAMETER	VALUE
Model	68159B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Sweep Generator
Alias	68159B; Anritsu 68159B
Frequency range	10 MHz to 26.5 GHz
Family	681XXB 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	+13 dBm
Leveled output 2 to 20 GHz	+9 dBm
Leveled output greater than 20 to 26.5 GHz	+6 dBm
Leveled with step attenuator 0.01 to less than 2 GHz	+11 dBm
Leveled with step attenuator 2 to 20 GHz	+7 dBm
Leveled with step attenuator greater than 20 to 26.5 GHz	+3.5 dBm
High power Option 15 0.01 to less than 2 GHz	+13 dBm
High power Option 15 2 to 20 GHz	+13 dBm
High power Option 15 greater than 20 to 26.5 GHz	+10 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
Sweep modes	analog and step sweep
Remote control	IEEE 488 GPIB
Display	Dot matrix LCD

PARAMETER	VALUE
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
Related CW model	68059B
Related signal generator	68259B
Related sweep signal model	68359B
Related ultra low noise sweep	69159A
AC power	90 to 132 or 180 to 264 Vac
Power consumption	about 400 VA
Harmonics family typical	-50 to -60 dBc
Nonharmonic spurious typical	-60 dBc Notes Power rows from Anritsu 68000B/69000A datasheet 6XX59 tables for 68159B (0.01–26.5 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	
Specifications	
PARAMETER	VALUE
Output power resolution	0.01 dB
Internal time base aging	less than 2 x 10 ⁻⁸ /day
Internal time base aging Option 16	less than 5 x 10 ⁻¹⁰ /day
Sweep modes	analog and step sweep
Remote control	IEEE 488 GPIB
Display	Dot matrix LCD
Dimensions	about 5.25 in H x 16.875 in W x 23.5 in D
Weight	about 50 lb
Related CW model	68059B
Related signal generator	68259B
Related sweep signal model	68359B
Related ultra low noise sweep	69159A
AC power	90 to 132 or 180 to 264 Vac
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Model	68159B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Sweep Generator
Alias	68159B; Anritsu 68159B
Frequency range	10 MHz to 26.5 GHz
Family	681XXB Synthesized Sweep Generators
CW frequency resolution standard	1 kHz

PARAMETER	VALUE
CW frequency resolution Option 11	0.1 Hz

Leveled output 0.01 to less than 2 GHz: +13 dBm
 Leveled output 2 to 20 GHz: +9 dBm
 Leveled output greater than 20 to 26.5 GHz: +6 dBm
 Leveled with step attenuator 0.01 to less than 2 GHz: +11 dBm
 Leveled with step attenuator 2 to 20 GHz: +7 dBm
 Leveled with step attenuator greater than 20 to 26.5 GHz: +3.5 dBm
 High power Option 15 0.01 to less than 2 GHz: +13 dBm
 High power Option 15 2 to 20 GHz: +13 dBm
 High power Option 15 greater than 20 to 26.5 GHz: +10 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
Sweep modes	analog and step sweep
Remote control	IEEE 488 GPIB
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AC power	90 to 132 or 180 to 264 Vac
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Notes

Power rows from Anritsu 68000B/69000A datasheet 6XX59 tables for 68159B (0.01–26.5 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

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NIST-traceable calibration · SAM registered ·
30-day returns
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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.