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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69169A Synthesized Sweep Generator, 0.01 GHz to 40.0 GHz

Anritsu 69169A Synthesized Sweep Generator 10 MHz to 40 GHz The Anritsu/Wiltron 69169A is an ultra-low-noise synthesized sweep generator covering 0.01 GHz to 40 GHz in the 69A Series. It adds analog, step, alternate, and manual sweep modes to the low-noise CW core for network analysis and swept ATE stimulus while retaining GPIB control and leveled output. The Anritsu/Wiltron 69169A is an ultra-low-noise synthesized sweep generator covering 0.01 GHz to 40 GHz in the 69A Series. It adds analog, step, alternate, and manual sweep modes to the low-noise CW core for network analysis and swept ATE stimulus while retaining GPIB control and leveled output.



MODEL Anritsu 69169A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 69169A	LISTING https://aumictechlabs.com/products/69169a-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69169A is a synthesized CW sweep signal generator delivering frequency coverage from 0.01 GHz to 40.0 GHz with 0.01 Hz resolution. This instrument provides output power ranging from -110 dBm to +10 dBm with 0.01 dB resolution, making it suitable for radar testing, system verification, and frequency characterization across aerospace, telecommunications, and defense applications. Technical Specifications Frequency Range: 0.01 GHz to 40.0 GHz Frequency Resolution: 0.01 Hz Frequency Accuracy: $\pm(1 \times 10^{-6} + \text{aging rate} \times \text{elapsed time})$ Output Power

Range: -110 dBm to +10 dBm Output Power Resolution: 0.01 dB Output Power Accuracy: $\pm(1.0 \text{ dB} + 0.1 \text{ dB/dB})$ or $\pm 2 \text{ dB}$ Output Impedance: 50 Ω RF Connector: Type K female Switching Speed: <30 ms or <20 ms Harmonics: <-20 dBc or -40 dBc Non-harmonics: <-70 dBc or -40 dBc Spurious Emissions: <-70 dBc SSB Phase Noise: Minimum -105 dBc/Hz; typical -100 dBc/Hz at 10 kHz offset from 10 GHz Modulation Bandwidth: Up to 20 MHz Operating Temperature: 0°C to +50°C Storage Temperature: -40°C to +75°C Dimensions: 133 mm (H) $\times$ 425 mm (W) $\times$ 525 mm (D) Weight: Approximately 25 kg maximum

Key Features Multiple sweep modes: step, analog, power, alternate, and master/slave Internal AM, FM, phase, and pulse modulation capabilities GPIB remote control interface Fast sweep performance with dedicated VNA modes achieving <8.5 ms/step

Typical Applications Radar system testing and characterization Frequency response measurement and verification Defense and aerospace signal source applications

Compatibility & Integration Compatible with Anritsu ML4803A power meter and HP 437B, 438A, and 70100A meters Wiltron 360B Vector Network Analyzer source lock mode compatible

Features & description

From manufacturer datasheet

Features

- Frequency coverage 0.01 to 40 GHz single coax
- Analog, step, alternate, and manual sweep modes
- Ultra-low-noise 69100A family architecture
- Power sweep and alternate sweep with independent levels
- Optional 0.1 Hz resolution (Option 11)
- Optional high-stability time base (Option 16)
- GPIB remote control
- Upgradeable within EI Toro synthesizer family

Applications

- Swept network analysis source to 40 GHz
- Analog and phase-locked step sweep component characterization
- Master/slave dual-source converter measurements
- ATE swept frequency stimulus with list/agility modes
- CW LO substitution when sweep is 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 SSB phase noise at 10 GHz 10 kHz offset: -100 dBc/Hz class SSB phase noise at 40 GHz 10 kHz offset: -94 dBc/Hz class Markers: up to 20 independent settable markers RF output connector: TypeKfemale Remote control: GPIB Dimensions: 429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg Related CW model: 69069A Related signal generator: 69269A Related sweep signal: 69369A Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×69A / 69169A sweep generator (0.01–40 GHz). Confirm options and leveled power on the unit.

69169A Characteristics / Specifications

PARAMETER	VALUE
Model	69169A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep Generator
Alias	69169A; Anritsu 69169A
Frequency range	0.01 GHz to 40 GHz
Family	69A Series ultra low noise sweep
Sweep modes	analog, phase locked step, alternate, manual
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Analog sweep accuracy class	lesser of ± 30 MHz or ± 2 MHz plus width term at ≤ 50 MHz/ms
Step sweep steps	1 to 10000
Step dwell time	1 ms to 99 s
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

PARAMETER	VALUE
SSB phase noise at 10 GHz 10 kHz offset	-100 dBc/Hz class
SSB phase noise at 40 GHz 10 kHz offset	-94 dBc/Hz class
Markers	up to 20 independent settable markers
RF output connector	TypeKfemale
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
Related CW model	69069A
Related signal generator	69269A
Related sweep signal	69369A Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×69A / 69169A sweep generator (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	
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Remote control	GPIO
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Mass	less than or equal to 23 kg
Related CW model	69069A
Related signal generator	69269A
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High power Option 15 0.01 to 20 GHz: +13 dBm
High power Option 15 greater than 20 to 40 GHz: +6 dBm

Specifications

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Frequency resolution Option 11	0.1 Hz

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Related CW model	69069A
Related signal generator	69269A
Related sweep signal	69369A

Notes
Specs from Anritsu/Wiltron 69A Series datasheet for 69x69A / 69169A sweep generator (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.