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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69069A Synthesized CW Generator, 0.01 GHz to 40 GHz

Anritsu 69069A Synthesized CW Generator 10 MHz to 40 GHz The Anritsu/Wiltron 69069A is an ultra-low-noise synthesized CW signal generator covering 0.01 GHz to 40 GHz in the 69A Series. It provides leveled CW RF on a single coax output with fine power resolution, low SSB phase noise, and GPIB automation for microwave and mm-wave LO, component, and system testing. The Anritsu/Wiltron 69069A is an ultra-low-noise synthesized CW signal generator covering 0.01 GHz to 40 GHz in the 69A Series. It provides leveled CW RF on a single coax output with fine power resolution, low SSB phase noise, and GPIB automation for microwave and mm-wave LO, component, and system testing.



MODEL

Anritsu 69069A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69069A

LISTING

<https://aumictechlabs.com/products/69069a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 69069A is a synthesized CW generator delivering precision frequency synthesis across 0.01 to 40 GHz. Built for RF component characterization, signal simulation, and automated test setups, this instrument combines fast switching, low phase noise, and stable frequency accuracy to meet the demands of laboratory and field-based RF engineers. Technical Specifications Frequency Performance Range: 0.01 to 40 GHz Resolution: 1 kHz (0.1 Hz with

Option 11) Aging rate (standard time base): $< 2 \times 10^{-8}$ per day Aging rate (Option 16 high-stability time base): $< 5 \times 10^{-10}$ per day Temperature coefficient (standard): $< 2 \times 10^{-8}/^{\circ}\text{C}$ over 0–55 °C Temperature coefficient (Option 16): $< 2 \times 10^{-10}/^{\circ}\text{C}$ Warm-up time from standby: 30 minutes Warm-up from cold start (0 °C, standard): 120 hours to achieve $< 2 \times 10^{-8}$ per day Output Characteristics Output impedance: 50 Ohms Power resolution: 0.01 dB Maximum leveled output: +10 dBm or manufacturer specification, whichever is lesser Signal Purity SSB phase noise (typical): –100 dBc at 10 kHz offset from 10 GHz Harmonic spurious (≥ 500 MHz to ≤ 2.2 GHz): < -50 dBc Harmonic spurious (≥ 10 MHz to ≤ 50 MHz): 50 MHz to ≤ 2 GHz): < -40 dBc Sweep Capabilities Step sweep: 1 to 10,000 steps with variable dwell time (1 ms to 99 seconds) Switching time: < 15 ms + 1 ms/GHz or < 40 ms, whichever is less Analog sweep: 1 MHz to full range, independently selected Key Features 1 kHz frequency resolution across full band; 0.1 Hz with Option 11 Excellent long-term stability with high-stability time base option Ultra-low phase noise for precision signal simulation Fast step switching for automated test sequences Selectable sweep modes for frequency characterization Typical Applications RF component and subsystem testing Signal source simulation for receiver analysis Automated test equipment (ATE) integration Phase noise and spectral purity measurement Compatibility & Integration The 69069A accepts internal and external 10 MHz time base references, enabling synchronization with external frequency standards and integrated test systems.

Features & description

From manufacturer datasheet

Features

• Synthesized CW coverage 0.01 to 40 GHz single coax • Ultra-low-noise 69000A family architecture • Internal leveling at RF output connector • 0.01 dB output power resolution • Optional 0.1 Hz frequency resolution (Option 11) • Optional high-stability oven time base (Option 16) • Optional step attenuator for wide dynamic range • GPIB remote control; rack-mount option available

Applications

• Microwave and mm-wave CW LO substitution to 40 GHz • Receiver and component characterization • Low-noise synthesizer source for ATE racks • Frequency response and conversion-loss setups • Upgrade path within El Toro 69A/68B synthesizer family

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

Minimum leveled power without attenuator: to -15 dBm (-20 dBm typical) Minimum leveled power with attenuator: to -115 dBm (-120 dBm typical) Output power resolution: 0.01 dB CW frequency resolution standard: 1 kHz CW 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 SSB phase noise at 10 GHz 10 kHz offset: -100 dBc/Hz class SSB phase noise at 20 GHz 10 kHz offset: -100 dBc/Hz class SSB phase noise at 40 GHz 10 kHz offset: -94 dBc/Hz class Source impedance: 50 ohm nominal RF output connector: TypeKfemale Preset CW frequencies: 20 (F0 to F9 and M0 to M9) Remote control: GPIB Dimensions: 429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg AC power: 90 to 132 Vac or 180 to 264 Vac, 49 to 440 Hz, less than or equal to 400 VA Related sweep model: 69169A Related signal generator: 69269A Related sweep signal: 69369A Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×69A / 69069A (0.01–40 GHz). Confirm installed options, exact max leveled power on the calibration label, and connector type on the unit.

69069A Characteristics / Specifications

PARAMETER	VALUE
Model	69069A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Alias	69069A; Anritsu 69069A; Wiltron 69069A
Frequency range	0.01 GHz to 40 GHz
Family	69A Series ultra low noise
Output mode	CW
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
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -115 dBm (-120 dBm typical)
Output power resolution	0.01 dB
CW frequency resolution standard	1 kHz
CW 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

PARAMETER	VALUE
Internal time base aging Option	less than 5×10^{-10} /day
SSB phase noise at 10 GHz 10 kHz offset	-100 dBc/Hz class
SSB phase noise at 20 GHz 10 kHz offset	-100 dBc/Hz class
SSB phase noise at 40 GHz 10 kHz offset	-94 dBc/Hz class
Source impedance	50 ohm nominal
RF output connector	TypeKfemale
Preset CW frequencies	20 (F0 to F9 and M0 to M9)
Remote control	GPIO
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
AC power	90 to 132 Vac or 180 to 264 Vac, 49 to 440 Hz, less than or equal to 400 VA
Related sweep model	69169A
Related signal generator	69269A
Related sweep signal	69369A Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×69A / 69069A (0.01–40 GHz). Confirm installed options, exact max leveled power on the calibration label, and connector type 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
Source impedance	50 ohm nominal
RF output connector	Type K female
Preset CW frequencies	20 (F0 to F9 and M0 to M9)
Remote control	GPIO
Dimensions	429 mm W x 133 mm H x 597 mm D
Mass	less than or equal to 23 kg
AC power	90 to 132 Vac or 180 to 264 Vac, 49 to 440 Hz, less than or equal to 400 VA
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Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Alias	69069A; Anritsu 69069A; Wiltron 69069A
Frequency range	0.01 GHz to 40 GHz
Family	69A Series ultra low noise
Output mode	CW
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
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -115 dBm (-120 dBm typical)
Output power resolution	0.01 dB
CW frequency resolution standard	1 kHz
CW 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

SSB phase noise at 10 GHz 10 kHz offset: -100 dBc/Hz class
SSB phase noise at 20 GHz 10 kHz offset: -100 dBc/Hz class
SSB phase noise at 40 GHz 10 kHz offset: -94 dBc/Hz class

Specifications

PARAMETER	VALUE
Source impedance	50 ohm nominal
RF output connector	TypeKfemale
Preset CW frequencies	20 (F0 to F9 and M0 to M9)
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
AC power	90 to 132 Vac or 180 to 264 Vac, 49 to 440 Hz, less than or equal to 400 VA
Related sweep model	69169A
Related signal generator	69269A
Related sweep signal	69369A

Notes
Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x69A / 69069A (0.01-40 GHz). Confirm installed options, exact max leveled power on the calibration label, and connector type 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.