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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69059A Synthesized CW Generator, 10 MHz to 26.5 GHz

Anritsu 69059A Synthesized CW Generator 10 MHz to 26.5 GHz The Anritsu/Wiltron 69059A is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 26.5 GHz in the 69A Series. It provides leveled CW RF output with fine frequency resolution and GPIB automation for microwave component, receiver, and system testing across RF through Ka band. The Anritsu/Wiltron 69059A is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 26.5 GHz in the 69A Series. It provides leveled CW RF output with fine frequency resolution and GPIB automation for microwave component, receiver, and system testing across RF through Ka band.



MODEL

Anritsu 69059A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69059A

LISTING

<https://aumictechlabs.com/products/69059a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69059A Synthesized CW Generator delivers stable, low-phase-noise RF signal generation across 10 MHz to 26.5 GHz. Engineered for aerospace, telecommunications, and R&D environments, this instrument provides precise frequency and power control with GPIB automation capability. Output ranges from -125 dBm to +17 dBm with phase noise of -100 dBc at 10 kHz offset from 10 GHz carrier. The 69059A supports CW and step sweep modes - stepping

through up to 10,000 frequencies with dwell times from 1 ms to 99 seconds and switching speeds under 40 ms. Frequency resolution reaches 1 kHz standard or 0.1 Hz with Option 11. Programmable frequency agility enables 1000 non-sequential phase-locked steps via GPIB control. Internal AM, FM, phase, and pulse modulation are standard; complex modulation can be user-downloaded. Frequency accuracy tracks the internal or external 10 MHz time base, with aging stability below 2×10^{-8} /day and temperature stability below 2×10^{-8} /°C over 0°C to 55°C. Harmonic suppression achieves <-50 dBc in the 500 MHz to 2.2 GHz band, <-40 dBc from 50 MHz to 2 GHz, and <-30 dBc from 10 MHz to 50 MHz.

Technical Specifications

Frequency Range: 10 MHz to 26.5 GHz

Output Power: -125 dBm to +17 dBm maximum

Phase Noise: -100 dBc at 10 kHz offset (10 GHz carrier)

Spurious Signals: <-50 dBc (500 MHz–2.2 GHz); <-40 dBc (50 MHz–2 GHz); <-30 dBc (10–50 MHz)

Frequency Resolution: 1 kHz (0.1 Hz with Option 11)

Frequency Stability (Aging): $<2 \times 10^{-8}$ /day ($<5 \times 10^{-10}$ /day with Option 16)

Frequency Stability (Temperature): $<2 \times 10^{-8}$ /°C over 0°C–55°C ($<2 \times 10^{-10}$ /°C with Option 16)

Step Sweep Range: 1 to 10,000 steps; 1 kHz to full range

step size

Dwell Time: 1 ms to 99 seconds per step

Frequency Switching Time: <15 ms + 1 ms/GHz or <40 ms, whichever is less

Programmable Agility: 1000 non-sequential frequencies via GPIB

Key Features

CW and step sweep modes with alternate sweep capability

Manual sweep with user-selectable step count or size

Internal AM, FM, phase, and pulse modulation

User-downloadable complex modulation

GPIB (IEEE-488) remote control and automation

Volatile memory for frequency list storage

Typical Applications

Aerospace and defense RF testing

Telecommunications subsystem characterization

Research laboratory signal generation

Production test automation

Compatibility & Integration

GPIB interface enables seamless integration into automated test systems and allows real-time frequency and power parameter adjustment under remote control.

Features & description

From manufacturer datasheet

Features

- Synthesized CW coverage 0.01 to 26.5 GHz

Applications

- Microwave CW local oscillator substitution to 26.5 GHz

69059A Characteristics / Specifications

PARAMETER	VALUE
Model	69059A
Manufacturer	Anritsu (Wilton 69A Series)
Instrument Type	Synthesized CW Generator
Alias	69059A; Anritsu 69059A; Wiltron 69059A
Frequency range	10 MHz to 26.5 GHz
Family	69A Series ultra low noise
Output power resolution	0.01 dB
Source impedance	50 ohm nominal
Source SWR internal leveling below 2 GHz	less than 1.7 typical
Source SWR 2 to 20 GHz	less than 1.6 typical
Source SWR above 20 GHz	less than 2.0 typical
Power level stability vs temperature	0.04 dB/degCtypical
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes
CW frequency resolution standard	1 kHz class
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /day class
Residual FM 0.5 to 1.0 GHz class	less than 10 Hz RMS
Residual FM 1.0 to 2.2 GHz class	less than 20 Hz RMS
Residual FM 2.2 to 20 GHz class	less than 40 Hz RMS
Step attenuator option to 26.5 GHz	Option 2A 110 dB
Step attenuator option to 40 GHz	Option 2B 110 dB
Step attenuator option to 50 GHz	Option 2C 90 dB
Step attenuator option to 60 GHz	Option 2D 90 dB

PARAMETER	VALUE
Rack mount option	Option 1
Remote control	GPIB
Leveled output power 0.01 to less than 2 GHz class	+13 dBm
Leveled output power 2 to 20 GHz class	+13 dBm
Leveled output power greater than 20 to 26.5 GHz class	+10 dBm
Leveled output with step attenuator 0.01 to less than 2 GHz class	+11 dBm
Leveled output with step attenuator 2 to 20 GHz class	+11 dBm
Leveled output with step attenuator greater than 20 to 26.5 GHz class	+7.5 dBm
Output mode	CW
Related sweep model	69159A
Related signal model	69259A
Related sweep signal model	69359A
Primary use	ultra low noise CW microwave synthesis to 26.5 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×59A / 69059A (0.01–26.5 GHz CW). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm options and calibration label power.

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
Model	69059A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Specifications	
PARAMETER	VALUE
Alias	69059A; Anritsu 69059A; Wiltron 69059A
Frequency range	10 MHz to 26.5 GHz
Family	69A Series ultra low noise
Specifications	
PARAMETER	VALUE
Output power resolution	0.01 dB
Source impedance	50 ohm nominal
Source SWR internal leveling below 2 GHz	less than 1.7 typical
Specifications	
PARAMETER	VALUE
Source SWR 2 to 20 GHz	less than 1.6 typical
Source SWR above 20 GHz	less than 2.0 typical
Power level stability vs temperature	0.04 dB/degCtypical
Specifications	
PARAMETER	VALUE
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes

Specifications

PARAMETER	VALUE
CW frequency resolution standard	1 kHz class
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /day class

Specifications

PARAMETER	VALUE
Residual FM 0.5 to 1.0 GHz class	less than 10 Hz RMS
Residual FM 1.0 to 2.2 GHz class	less than 20 Hz RMS
Residual FM 2.2 to 20 GHz class	less than 40 Hz RMS

Specifications

PARAMETER	VALUE
Step attenuator option to 26.5 GHz	Option 2A 110 dB
Step attenuator option to 40 GHz	Option 2B 110 dB
Step attenuator option to 50 GHz	Option 2C 90 dB

Specifications

PARAMETER	VALUE
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIO

Leveled output power 0.01 to less than 2 GHz class: +13 dBm

Leveled output power 2 to 20 GHz class: +13 dBm

Leveled output power greater than 20 to 26.5 GHz class: +10 dBm

Leveled output with step attenuator 0.01 to less than 2 GHz class: +11 dBm

Leveled output with step attenuator 2 to 20 GHz class: +11 dBm

Leveled output with step attenuator greater than 20 to 26.5 GHz class: +7.5 dBm

Specifications

PARAMETER	VALUE
Output mode	CW
Related sweep model	69159A
Related signal model	69259A

Related sweep signal model: 69359A

Primary use: ultra low noise CW microwave synthesis to 26.5 GHz

Notes

Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x59A / 69059A (0.01-26.5 GHz CW). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm options and calibration label power.

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 ·
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.