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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69063A Synthesized CW Generator, 2 GHz to 40 GHz

Anritsu 69063A Synthesized CW Generator 2-40 GHz The Anritsu/Wiltron 69063A is an ultra-low-noise synthesized CW generator covering 2 GHz to 40 GHz in the 69A Series. It is the 2 GHz low-end cutoff CW model for applications that do not need coverage below 2 GHz, as the CW member of the 69×63A family. The Anritsu/Wiltron 69063A is an ultra-low-noise synthesized CW generator covering 2 GHz to 40 GHz in the 69A Series. It is the 2 GHz low-end cutoff CW model for applications that do not need coverage below 2 GHz, as the CW member of the 69×63A family.



MODEL

Anritsu 69063A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69063A

LISTING

<https://aumictechlabs.com/products/69063a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69063A is a synthesized continuous wave generator delivering stable, phase-locked signals from 2 GHz to 40 GHz. Built on microprocessor control, it supports internal AM, FM, Φ M, and pulse modulation alongside user-downloaded complex modulation. The instrument executes broad and narrow-band sweeps with programmable step agility - up to 10,000 steps with dwell times from 1 ms to 99 seconds and switching times typically under 15 ms plus 1 ms per GHz step size. Manual and alternate sweep modes enable flexible frequency selection between independent

ranges at differing power levels. Frequency agility extends to 1000 non-sequential frequencies under GPIB control for phase-locked step sweeps. Sweep width and step size adjust independently from 1 kHz to full range (0.1 Hz with Option 11). Output power ranges from -125 dBm to +9.0 dBm nominal, extending to +17 dBm maximum; step attenuator configuration reaches +7.0 dBm to +3.0 dBm. Remote operation via IEEE-488 GPIB provides full command of all functions except power on/standby. The unit is rackmount-configured and qualified for Option 11 (0.1 Hz resolution) and calibration services.

Technical Specifications
Frequency Range: 2 GHz to 40 GHz
Signal Type: Continuous Wave (CW)
Modulation: Internal AM, FM, Φ M, pulse modulation; user-downloaded complex modulation supported
Output Power (Nominal): +9.0 dBm to +6.0 dBm
Output Power (Step Attenuator): +7.0 dBm to +3.0 dBm
Maximum Output Power: +17 dBm
Minimum Output Power: -125 dBm
Sweep Steps: 1 to 10,000 variable steps
Step Size: 1 kHz to full range; 0.1 Hz to full range with Option 11
Dwell Time per Step: 1 ms to 99 seconds
Frequency Switching Time: Less than 15 ms + 1 ms/GHz or less than 40 ms (whichever is less)
Programmable Frequencies: Up to 1000 non-sequential frequencies (GPIB control)
Interface: IEEE-488 GPIB
Form Factor: Rackmount

Key Features
Phase-locked operation across full 2–40 GHz range
Broad and narrow-band sweep modes with CW or step sweep selection
Alternate sweep mode between two independent frequency ranges with selectable power levels per range
Manual sweep with user-selectable steps or step size
Independent sweep width selection from 1 kHz to full range
Volatile memory storage for non-sequential frequency lists

Typical Applications
RF and microwave system testing and characterization
Phase-locked signal generation for component and subsystem evaluation
Multi-frequency step-sweep testing requiring precise dwell timing
Frequency-agile signal sourcing for modulation and receiver testing

Compatibility & Integration
Member of Anritsu 69000A Series and 69A family synthesizer platform
Full GPIB remote control enables automated test system integration
Option 11 available for 0.1 Hz frequency resolution
Calibration services available

Features & description

From manufacturer datasheet

Features

• Synthesized CW 2 to 40 GHz • Ultra-low-noise 69000A architecture • Standard leveled power per 69×63A tables • 0.01 dB power resolution • Optional 0.1 Hz resolution and oven time base • Optional step attenuator Option 2B • GPIB remote control • Related sweep/signal siblings 69×63A

Applications

• Microwave CW LO substitution 2 to 40 GHz • Amplifier and mixer stimulus without sub-2 GHz coverage • ATE synthesizer racks • Low-noise CW reference for receivers • Upgrade base within 69A family

69063A Characteristics / Specifications

PARAMETER	VALUE
Anritsu 69063A Synthesized CW Generator	40 GHz Overview The Anritsu/Wiltron 69063A is an ultra-low-noise synthesized CW generator covering 2 GHz to 40 GHz in the 69A Series. It is the 2 GHz low-end cutoff CW model for applications that do not need coverage below 2 GHz, as the CW member of the 69×63A family.
Model	69063A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Alias	69063A; Anritsu 69063A
Frequency range	2 GHz to 40 GHz
Family	69A Series ultra low noise
Output mode	CW
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 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 class
Internal time base aging Option	less than 5×10^{-10} /day class

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
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
Rack mount option	Option 1
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
Leveled output power 2 to 20 GHz class	+13 dBm
Leveled output power greater than 20 to 40 GHz class	+6 dBm
Leveled output with step attenuator 2 to 20 GHz class	+11 dBm
Leveled output with step attenuator greater than 20 to 40 GHz class	+3 dBm
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -115 dBm (-120 dBm typical)
SSB phase noise at 10 GHz 10 kHz offset	-100 dBc/Hz class
SSB phase noise at 40 GHz 10 kHz offset	-88 dBc/Hz class
RF output connector	TypeKorVfemale class
Related sweep model	69163A
Related signal generator	69263A
Related sweep signal	69363A Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×63A / 69063A (2–40 GHz CW). 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	
Technical Specifications	
PARAMETER	VALUE
Model	69063A
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Output mode	CW
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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/deg C typical
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes
CW frequency resolution standard	1 kHz class
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 x 10^-8/day class
Internal time base aging Option 16	less than 5 x 10^-10/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

PARAMETER	VALUE
Step attenuator option to 50 GHz	Option 2C 90 dB
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIB
Dimensions	429 mm W x 133 mm H x 597 mm D
Mass	less than or equal to 23 kg

Specifications

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CW frequency resolution standard	1 kHz class
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 x 10 ⁻⁸ /day class
Internal time base aging Option 16	less than 5 x 10 ⁻¹⁰ /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

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Step attenuator option to 26.5 GHz	Option 2A 110 dB
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Step attenuator option to 50 GHz	Option 2C 90 dB
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIO
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg

Leveled output power 2 to 20 GHz class: +13 dBm
 Leveled output power greater than 20 to 40 GHz class: +6 dBm
 Leveled output with step attenuator 2 to 20 GHz class: +11 dBm
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 SSB phase noise at 40 GHz 10 kHz offset: -88 dBc/Hz class

Specifications

PARAMETER	VALUE
RF output connector	TypeKorVfemale class
Related sweep model	69163A
Related signal generator	69263A
Related sweep signal	69363A

Notes
 Specs from Anritsu/Wiltron 69A Series datasheet for 69x63A / 69063A (2-40 GHz CW). 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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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.