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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69053A Synthesized CW Generator, 10 MHz to 65 GHz

Anritsu 69053A Synthesized CW Generator 2 to 26.5 GHz The Anritsu/Wiltron 69053A is an ultra-low-noise synthesized CW generator covering 2 GHz to 26.5 GHz in the 69A Series. It is the 2 GHz low-end cutoff CW model for Ka-band applications that do not need coverage below 2 GHz, with leveled power and GPIB automation as the CW member of the 69×53A family. The Anritsu/Wiltron 69053A is an ultra-low-noise synthesized CW generator covering 2 GHz to 26.5 GHz in the 69A Series. It is the 2 GHz low-end cutoff CW model for Ka-band applications that do not need coverage below 2 GHz, with leveled power and GPIB automation as the CW member of the 69×53A family.



MODEL

Anritsu 69053A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69053A

LISTING

<https://aumictechlabs.com/products/69053a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69053A is a synthesized CW generator delivering stable, phase-coherent signals across 10 MHz to 65 GHz for RF and millimeter-wave testing. Single coaxial output with output power from -125 dBm to +17 dBm and ultra-low phase noise of -100 dBc/Hz at 10 kHz offset (referenced at 10 GHz) makes it suited for component characterization, system integration, and automated test environments. Frequency resolution of 1 kHz standard (0.1 Hz with Option 11) and

50 Ω output impedance ensure precision across its full range.

Technical Specifications

Frequency Range: 10 MHz to 65 GHz (single coaxial output) Output Power: -125 dBm to +17 dBm maximum Phase Noise: -100 dBc/Hz SSB at 10 kHz offset from 10 GHz Frequency Resolution: 1 kHz standard; 0.1 Hz with Option 11 Output Impedance: 50 Ω Harmonic Content: -40 dBc (harmonic and non-harmonic noise)

Key Features

CW stimulus output with step sweep capability (1 to 10,000 steps) Step size configurable from 1 kHz to full frequency range; dwell time 1 ms to 99 seconds Frequency switching time less than 15 ms + 1 ms/GHz step size (typical maximum 40 ms) Alternate sweep mode between two ranges with independent power level assignment per range Manual sweep with phase-locked frequency tuning between limits Internal AM, FM, phase modulation, and pulse modulation; supports user-downloaded complex modulation Pulse modulation via internal generator or external control (doublet, triplet, quadruplet configurations) Simultaneous synchronized modulations for complex signal generation GPIB control interface with SCPI and native Anritsu command support Waveguide extensions available to 110 GHz

Typical Applications

Component characterization and validation at millimeter-wave frequencies System integration and subsystem testing Automated test system stimulus source Phase noise and spectral purity validation

Compatibility & Integration

GPIB control enables integration into automated test environments. Option 11 provides 0.1 Hz resolution for ultra-fine frequency tuning requirements.

Features & description

From manufacturer datasheet

Applications

- Microwave CW LO substitution 2 to 26.5 GHz

High power Option 15 2 to 20 GHz: +17 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 Source impedance: 50 ohm nominal RF output connector: TypeKfemale Step attenuator option: Option 2A 110 dB Remote control: GPIB Dimensions: 429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg AC power: less than or equal to 400 VA Related sweep model: 69153A Related signal generator: 69253A Related sweep signal: 69353A Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×53A / 69053A (2–26.5 GHz CW). Confirm Option 15 before quoting high-power leveled values.

69053A Characteristics / Specifications

PARAMETER	VALUE
Model	69053A
Manufacturer	Anritsu (Wilton 69A Series)
Instrument Type	Synthesized CW Generator
Alias	69053A; Anritsu 69053A; Wiltron 69053A
Frequency range	2 GHz to 26.5 GHz
Family	69A Series ultra low noise
Output mode	CW
Leveled power 2 to 20 GHz	+13 dBm
Leveled power greater than 20 to 26.5 GHz	+10 dBm
Leveled power with step attenuator 2 to 20 GHz	+11 dBm
Leveled power with step attenuator greater than 20 to 26.5 GHz	+7.5 dBm
High power Option 15 2 to 20 GHz	+17 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
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
Source impedance	50 ohm nominal

PARAMETER	VALUE
RF output connector	TypeKfemale
Step attenuator option	Option 2A 110 dB
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg
AC power	less than or equal to 400 VA
Related sweep model	69153A
Related signal generator	69253A
Related sweep signal	69353A Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×53A / 69053A (2–26.5 GHz CW). Confirm Option 15 before quoting high-power leveled values.

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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PARAMETER	VALUE
Model	69053A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Specifications	
PARAMETER	VALUE
Alias	69053A; Anritsu 69053A; Wiltron 69053A
Frequency range	2 GHz to 26.5 GHz
Family	69A Series ultra low noise
Output mode: CW	
Leveled power 2 to 20 GHz: +13 dBm	
Leveled power greater than 20 to 26.5 GHz: +10 dBm	
Leveled power with step attenuator 2 to 20 GHz: +11 dBm	
Leveled power with step attenuator greater than 20 to 26.5 GHz: +7.5 dBm	
High power Option 15 2 to 20 GHz: +17 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
Specifications	
PARAMETER	VALUE
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 x 10^-8/day	
Internal time base aging Option 16: less than 5 x 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

Specifications

PARAMETER	VALUE
Source impedance	50 ohm nominal
RF output connector	TypeKfemale
Step attenuator option	Option 2A 110 dB

Specifications

PARAMETER	VALUE
Remote control	GPIOB
Dimensions	429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg
AC power	less than or equal to 400 VA

Specifications

PARAMETER	VALUE
Related sweep model	69153A
Related signal generator	69253A
Related sweep signal	69353A

Notes

Specs from Anritsu/Wiltron 69A Series datasheet for 69x53A / 69053A (2–26.5 GHz CW). Confirm Option 15 before quoting high-power leveled values.

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.