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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69055A Synthesized CW Generator, 0.5 GHz to 26.5 GHz

Anritsu 69055A Synthesized CW Generator 0.5–26.5 GHz The Anritsu/Wiltron 69055A is an ultra-low-noise synthesized CW generator covering 0.5 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 through Ka band as the CW member of the 69×55A family. The Anritsu/Wiltron 69055A is an ultra-low-noise synthesized CW generator covering 0.5 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 through Ka band as the CW member of the 69×55A family.



MODEL

Anritsu 69055A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69055A

LISTING

<https://aumictechlabs.com/products/69055a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 69055A is a synthesized continuous-wave generator delivering precision signal generation across 0.5 GHz to 26.5 GHz. Built for high-accuracy microwave component testing and system simulation, it combines excellent spectral purity with manual front-panel control and remote GPIB automation. The instrument addresses demanding applications in telecommunications, defense, and high-frequency electronics where signal integrity and

measurement reliability are critical. Technical Specifications Frequency Range: 0.5 GHz to 26.5 GHz Signal Type: Continuous Wave (CW) Accuracy & Stability: Synthesized design ensures high precision and frequency stability Spectral Purity: Engineered for clean signal generation with minimized unwanted emissions Control Interface: Manual front-panel operation and IEEE-488 GPIB remote control Key Features Synthesized architecture for inherent frequency accuracy Compact, durable construction suited for laboratory and field deployment Dual control modes enabling flexible test automation and manual tuning Output power configurable across typical component and system test levels Typical Applications Microwave component characterization and validation System-level RF/microwave simulation Frequency-dependent device testing in defense and telecommunications Integration into automated test equipment (ATE) suites Compatibility & Integration IEEE-488 GPIB interface enables direct integration with test automation platforms, data acquisition systems, and remote laboratory configurations. Benchtop form factor accommodates both standalone operation and rack-mount integration.

Features & description

From manufacturer datasheet

Features

• Synthesized CW coverage 0.5 to 26.5 GHz • Ultra low noise 69000A family architecture • Internal leveling at RF output connector • 0.01 dB output power resolution • Optional 110 dB step attenuator Option 2A • GPIB remote control • Rack mount Option 1 • Related sweep/signal siblings in 69×55A band

Applications

• Microwave CW local oscillator substitution to 26.5 GHz • Receiver and component characterization • Low noise synthesizer source for ATE racks • Frequency response and conversion loss setups • Lab replacement for older Wiltron 68B/69A sources

69055A Characteristics / Specifications

PARAMETER	VALUE
Anritsu 69055A Synthesized CW Generator 0.	26.5 GHz Overview The Anritsu/Wiltron 69055A is an ultra-low-noise synthesized CW generator covering 0.5 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 through Ka band as the CW member of the 69×55A family.
Model	69055A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Alias	69055A; Anritsu 69055A; Wiltron 69055A
Frequency range	0.5 GHz to 26.5 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 0.5 to 2.2 GHz class	+13 dBm
Leveled output power greater than 2.2 to 20 GHz class	+13 dBm
Leveled output power greater than 20 to 26.5 GHz class	+10 dBm
Leveled output with step attenuator 0.5 to 2.2 GHz class	+11 dBm
Leveled output with step attenuator greater than 2.2 to 20 GHz class	+11 dBm
Leveled output with step attenuator greater than 20 to 26.5 GHz class	+7.5 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
RF output connector	TypeKfemale
Related sweep model	69155A
Related signal model	69255A
Related sweep signal model	69355A

PARAMETER	VALUE
Primary use	ultra low noise CW microwave synthesis to 26.5 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×55A / 69055A (0.5–26.5 GHz CW). 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	
Technical Specifications	
PARAMETER	VALUE
Model	69055A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Alias	69055A; Anritsu 69055A; Wiltron 69055A
Frequency range	0.5 GHz to 26.5 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/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

PARAMETER	VALUE
Model	69055A
Manufacturer	Anritsu (Wiltron 69A Series)
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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 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

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
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 0.5 to 2.2 GHz class: +13 dBm
Leveled output power greater than 2.2 to 20 GHz class: +13 dBm
Leveled output power greater than 20 to 26.5 GHz class: +10 dBm
Leveled output with step attenuator 0.5 to 2.2 GHz class: +11 dBm
Leveled output with step attenuator greater than 2.2 to 20 GHz class: +11 dBm
Leveled output with step attenuator greater than 20 to 26.5 GHz class: +7.5 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

Specifications

PARAMETER	VALUE
RF output connector	TypeKfemale
Related sweep model	69155A
Related signal model	69255A
Related sweep signal model	69355A
Primary use	ultra low noise CW microwave synthesis to 26.5 GHz

Notes
Specs from Anritsu/Wiltron 69A Series datasheet for 69x55A / 69055A (0.5–26.5 GHz CW). 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.