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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69153A Synthesized Sweep Generator, 2-26.5 GHz

Anritsu 69153A Synthesized Sweep Generator 2-26.5 GHz The Anritsu/Wiltron 69153A is an ultra-low-noise synthesized sweep generator covering 2 GHz to 26.5 GHz in the 69A Series. It provides analog, step, alternate, and manual sweeps for network analysis and swept ATE in the commonly used 26.5 GHz coax band without requiring coverage below 2 GHz. The Anritsu/Wiltron 69153A is an ultra-low-noise synthesized sweep generator covering 2 GHz to 26.5 GHz in the 69A Series. It provides analog, step, alternate, and manual sweeps for network analysis and swept ATE in the commonly used 26.5 GHz coax band without requiring coverage below 2 GHz.



MODEL

Anritsu 69153A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69153A

LISTING

<https://aumictechlabs.com/products/69153a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 69153A is a synthesized sweep generator delivering clean, precise signals across 2–26.5 GHz for demanding RF and microwave test applications. Built on synthesized architecture, it combines excellent spectral purity with frequency stability, making it ideal for radar systems, wireless communications, and sensitive high-frequency measurements requiring accurate signal generation and control. Technical Specifications Frequency Range: 2 GHz to 26.5 GHz Output Power Maximum: +9 dBm Minimum: –15 dBm Resolution: 0.01 dB Accuracy: ±2 dB or ±2.5 dB

Level Switching Time: 20 ms Signal Quality Output Impedance: 50 Ohm SSB Phase Noise: -105 dBc/Hz (minimum) to -63 dBc/Hz (maximum) Harmonics: -40 dBc Non-harmonics: -40 dBcKey Features Ultra low-noise synthesized architecture for spectral purity and stability 0.01 dB power resolution across full output range Fast 20 ms level switching for dynamic test sequences Sweep capabilities with independently selectable sweep width User-accessible level flatness correction Self-test functionality Master/slave operation modesTypical Applications Radar system design and verification Wireless communication receiver testing High-frequency component characterization Sensitive measurement applications requiring low phase noise Complex system integration and validationCompatibility & Integration The 69153A integrates into standard RF test benches via its 50 Ohm output impedance, matching industry-standard test equipment. GPIB control enables remote automation and integration with automatic test equipment (ATE) systems.

Features & description

From manufacturer datasheet

Features

• Coverage 2 to 26.5 GHz • Analog, step, alternate, and manual sweep • Ultra-low-noise 69100A architecture • Power sweep and alternate sweep levels • Optional high power Option 15 • Optional 0.1 Hz resolution and oven time base • GPIB remote control • K female RF output

Applications

• Swept network analysis 2 to 26.5 GHz • Analog and phase-locked step sweep component test • Master/slave dual-source measurements • ATE swept microwave stimulus • CW LO substitution when not sweeping

High power Option 15 with attenuator 20 to 26.5 GHz: +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) Output power resolution: 0.01 dB Frequency resolution standard: 1 kHz Frequency resolution Option 11: 0.1 Hz Analog sweep width: 1 MHz to full range Analog sweep time: 30 ms to 99 s Step sweep steps: 1 to 10000 Step dwell time: 1 ms to 99 s SSB phase noise at 10 GHz 10 kHz offset: -100 dBc/Hz class SSB phase noise at 26.5 GHz 10 kHz offset: -94 dBc/Hz class Markers: up to 20 RF output connector: TypeKfemale Remote control: GPIB Dimensions: 429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg Related CW model: 69053A Related signal generator: 69253A Related sweep signal: 69353A Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×53A / 69153A (2–26.5 GHz). Confirm Option 15 and attenuator before quoting high-power levels.

69153A Characteristics / Specifications

PARAMETER	VALUE
Anritsu 69153A Synthesized Sweep Generator	26.5 GHz Overview The Anritsu/Wiltron 69153A is an ultra-low-noise synthesized sweep generator covering 2 GHz to 26.5 GHz in the 69A Series. It provides analog, step, alternate, and manual sweeps for network analysis and swept ATE in the commonly used 26.5 GHz coax band without requiring coverage below 2 GHz.
Model	69153A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep Generator
Alias	69153A; Anritsu 69153A
Frequency range	2 GHz to 26.5 GHz
Family	69A Series ultra low noise sweep
Leveled power 2 to 20 GHz	+9 dBm
Leveled power greater than 20 to 26.5 GHz	+6 dBm
Leveled power with step attenuator 2 to 20 GHz	+7 dBm
Leveled power with step attenuator greater than 20 to 26.5 GHz	+3.5 dBm
High power Option 15 2 to less than 20 GHz	+13 dBm
High power Option 15 20 to 26.5 GHz	+10 dBm
High power Option 15 with attenuator 2 to less than 20 GHz	+11 dBm
High power Option 15 with attenuator 20 to 26.5 GHz	+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)
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz

PARAMETER	VALUE
Frequency resolution Option	0.1 Hz
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep steps	1 to 10000
Step dwell time	1 ms to 99 s
SSB phase noise at 10 GHz 10 kHz offset	-100 dBc/Hz class
SSB phase noise at 26.5 GHz 10 kHz offset	-94 dBc/Hz class
Markers	up to 20
RF output connector	TypeKfemale
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
Related CW model	69053A
Related signal generator	69253A
Related sweep signal	69353A Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×53A / 69153A (2–26.5 GHz). Confirm Option 15 and attenuator before quoting high-power levels.

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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RF output connector	Type K female
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Notes
Specs from Anritsu/Wiltron 69A Series datasheet for 69x53A / 69153A (2-26.5 GHz). Confirm Option 15 and attenuator before quoting high-power levels.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.