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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69163A Synthesized Sweep Generator, 0.01 to 65.0 GHz

Anritsu 69163A Synthesized Sweep Generator 2 to 40 GHz The Anritsu/Wiltron 69163A is a 69A Series synthesized sweep generator covering 2 GHz to 40 GHz. It delivers analog and phase-locked step sweeps for mm-wave network analysis and ATE as the sweep member of the 69×63A band family. The Anritsu/Wiltron 69163A is a 69A Series synthesized sweep generator covering 2 GHz to 40 GHz. It delivers analog and phase-locked step sweeps for mm-wave network analysis and ATE as the sweep member of the 69×63A band family.



MODEL

Anritsu 69163A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69163A

LISTING

<https://aumictechlabs.com/products/69163a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69163A Synthesized Sweep Generator delivers precision RF and microwave signal generation across 0.01 to 65.0 GHz with output power ranging from -125 dBm to +17 dBm. This instrument combines analog, step, and manual sweep modes with variable stepping from 1 kHz to full-range bandwidth, supporting dwell times from 1 ms to 99 seconds. Switching time remains below 15 ms plus 1 ms per GHz step size, or 40 ms maximum. Technical Specifications Frequency Range: 0.01 GHz to 65.0 GHz Output Power: -125 dBm to +17 dBm Frequency Resolution: 1 kHz standard; 0.1 Hz with Option 11 Sweep Width: 1 kHz to full range (0.1 Hz minimum with Option 11) Step Sweep Configuration: 1 to 10,000 steps; 1 ms to 99 seconds dwell per step Switching Time:

<15 ms + 1 ms/GHz or <40 ms (whichever is less) Output Accuracy: 2 dB Phase Noise: -100 dBc at 10 kHz offset from 10 GHz (typical) Harmonics: -35 dBc Output Impedance: 50 Ohm

Key Features Three sweep modes: analog, step, and manual sweep with phase-locked frequency adjustment Alternate sweep capability between two ranges with independent power level assignment Internal AM, FM, phase, and pulse modulation with 7 modulating waveforms User-downloadable complex modulation support 360B VNA source lock mode integration (specific models) with <8.5 ms/step sweep speed and 100 kHz frequency resolution 10 non-volatile setup storage positions Programmable frequency agility supporting up to 1000 non-sequential frequencies Self-test, secure mode, and reset functionality Master/slave operation capability User-level flatness correction

Control & Integration IEEE 488 GPIB control interface for automated test system integration Compatible with Wiltron 360B Vector Network Analyzer control protocols

Features & description

From manufacturer datasheet

Features

- Synthesized sweep coverage 2 to 40 GHz

Applications

- Swept frequency stimulus 2 to 40 GHz

69163A Characteristics / Specifications

PARAMETER	VALUE
Model	69163A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep Generator
Alias	69163A; Anritsu 69163A; Wiltron 69163A
Frequency range	2 GHz to 40 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/degC typical
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 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
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep	every frequency step phase locked
Output mode	CW and sweep
Related CW model	69063A
Related signal model	69263A
Related sweep signal model	69363A
Primary use	ultra low noise synthesized sweep 2 to 40 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×63A / 69163A (2–40 GHz Sweep). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal.

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	69163A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep Generator
Specifications	
PARAMETER	VALUE
Alias	69163A; Anritsu 69163A; Wiltron 69163A
Frequency range	2 GHz to 40 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	GPIB

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

Specifications

PARAMETER	VALUE
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep	every frequency step phase locked

Specifications

PARAMETER	VALUE
Output mode	CW and sweep
Related CW model	69063A
Related signal model	69263A

Related sweep signal model: 69363A

Primary use: ultra low noise synthesized sweep 2 to 40 GHz

Notes

Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x63A / 69163A (2-40 GHz Sweep). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal.

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.