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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69269A Synthesized Signal Generator, 0.01 GHz to 40.0 GHz

Anritsu 69269A Synthesized Signal Generator 10 MHz to 40 GHz The Anritsu/Wiltron 69269A is a 69A Series synthesized signal generator covering 0.01 GHz to 40 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×69A family alongside 69069A (CW), 69169A (sweep), and 69369A (sweep/signal). The Anritsu/Wiltron 69269A is a 69A Series synthesized signal generator covering 0.01 GHz to 40 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×69A family alongside 69069A (CW), 69169A (sweep), and 69369A (sweep/signal).



MODEL

Anritsu 69269A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69269A

LISTING

<https://aumictechlabs.com/products/69269a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69269A is a synthesized signal generator delivering phase-locked RF output across 0.01 to 40 GHz with output power spanning -125 dBm to +17 dBm in 0.01 dB steps. Built for defense electronics, microwave link testing, and RF design verification, it combines ultra-low phase noise (-100 dBc/Hz @ 10 kHz offset from 10 GHz) with flexible modulation and sweep architectures. Technical Specifications Frequency Coverage & Stability Frequency range: 0.01 to 40 GHz Frequency resolution: 1 kHz (0.1 Hz with Option 11) Frequency stability with aging: < 2 ×

$10^{-8}/\text{day}$ ($< 5 \times 10^{-10}/\text{day}$ with Option 16) Frequency stability with temperature: $< 2 \times 10^{-8}/^{\circ}\text{C}$ over 0°C to 55°C ($< 2 \times 10^{-10}/^{\circ}\text{C}$ with Option 16) Phase noise (SSB): -100 dBc/Hz at 10 kHz offset from 10 GHz Output Power Maximum output power: +17 dBm Minimum output power: -125 dBm Output level resolution: 0.01 dB steps Reference & Timing Internal high-stability time-base (Option 16 available) External 10 MHz reference input accepted External reference output: 0.5 V p-p into 50Ω , AC coupled, rear panel BNC connector Switching Performance To within 1 kHz of final frequency: < 40 ms typical maximum Step sweep switching: < 15 ms + 1 ms/GHz step size or < 40 ms, whichever is less Key Features Modulation Capabilities Internal AM, FM, $\varnothing$ M, and pulse modulation 7 internal modulating waveforms including Gaussian noise User-defined arbitrary waveforms and downloadable complex modulation External modulation via external signal sources Doublet, triplet, and quadruplet pulse support for RADAR blind spot testing Simultaneous synchronized modulations across full frequency range Sweep Modes Continuous sweep: 1 MHz to full range Step sweep: 1 to 10,000 steps with dwell time from 1 ms to 99 seconds Alternate sweep mode between two ranges with independent power levels Manual sweep with phase-locked frequency adjustment Typical Applications Defense electronics testing, microwave link characterization, RF component design verification, RADAR signal simulation. Compatibility & Integration Accepts external 10 MHz reference; provides external reference output for system synchronization.

Features & description

From manufacturer datasheet

Features

- Synthesized signal coverage 0.01 to 40 GHz

Applications

- Modulated microwave stimulus 0.01 to 40 GHz

69269A Characteristics / Specifications

PARAMETER	VALUE
Model	69269A
Manufacturer	Anritsu (Wilton 69A Series)
Instrument Type	Synthesized Signal Generator
Alias	69269A; Anritsu 69269A; Wiltron 69269A
Frequency range	10 MHz 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/degCtypical
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 0.01 to less than 2 GHz class	+13 dBm
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 0.01 to less than 2 GHz class	+11 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
Modulation	AM Ext, FM Ext, Pulse Ext (standard 69200A)
Analog sweep	not standard on 69200A class
Step sweep	standard
Output mode	CW, step sweep, and externally modulated signal
Related CW model	69069A
Related sweep model	69169A
Related sweep signal model	69369A
Primary use	ultra low noise synthesized signal generation 0.01 to 40 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×69A / 69269A (0.01–40 GHz Signal). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. 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	
Specifications	
PARAMETER	VALUE
Model	69269A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Specifications	
PARAMETER	VALUE
Alias	69269A; Anritsu 69269A; Wiltron 69269A
Frequency range	10 MHz 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	GPIO

Leveled output power 0.01 to less than 2 GHz class: +13 dBm

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 0.01 to less than 2 GHz class: +11 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
Modulation	AM Ext, FM Ext, Pulse Ext (standard 69200A)
Analog sweep	not standard on 69200A class
Step sweep	standard

Specifications

PARAMETER	VALUE
Output mode	CW, step sweep, and externally modulated signal
Related CW model	69069A
Related sweep model	69169A

Related sweep signal model: 69369A

Primary use: ultra low noise synthesized signal generation 0.01 to 40 GHz

Notes

Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x69A / 69269A (0.01-40 GHz Signal). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. 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.