

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ANRITSU

Anritsu 69259A Synthesized Signal Generator, 0.01 to 26.5 GHz

Anritsu 69259A Synthesized Signal Generator 10 MHz to 26.5 GHz The Anritsu/Wiltron 69259A is a 69A Series synthesized signal generator covering 0.01 GHz to 26.5 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×59A family alongside 69059A (CW), 69159A (sweep), and 69359A (sweep/signal). The Anritsu/Wiltron 69259A is a 69A Series synthesized signal generator covering 0.01 GHz to 26.5 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×59A family alongside 69059A (CW), 69159A (sweep), and 69359A (sweep/signal).



MODEL

Anritsu 69259A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69259A

LISTING

<https://aumictechlabs.com/products/69259a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69259A is a synthesized signal generator spanning 0.01 to 26.5 GHz, engineered for RF device characterization, modulator analysis, and EMC testing. It delivers precise output power control from -125 dBm to +17 dBm with ultra-low phase noise (-136 dBc/Hz SSB at 10 GHz). The instrument supports internal AM, FM, phase, and pulse modulation alongside user-downloaded complex waveforms. Step sweep functionality addresses up to 1000 non-sequential frequencies with <15 ms typical switching time, while analog sweep operates across programmable ranges

with selectable linear or logarithmic profiles. Alternate sweep mode enables bidirectional frequency sweeping between two independent ranges. Frequency stability is anchored to an internal 10 MHz time base with aging drift $<2 \times 10^{-8}/\text{day}$ and temperature coefficient $<2 \times 10^{-8}/^{\circ}\text{C}$ over 0–55 °C. External 10 MHz reference input and output are provided for synchronization with external equipment. Technical Specifications Frequency Range: 0.01 GHz to 26.5 GHz Output Power: +17 dBm (maximum), –125 dBm (minimum), with accurate level control Phase Noise: –136 dBc/Hz SSB at 10 GHz carrier Modulation: Internal AM, FM, phase, and pulse modulation; supports downloaded complex waveforms; 7 internal modulating waveforms including Gaussian noise Pulse Modulation: Doublet, triplet, and quadruplet pulse formats for RADAR testing; external or internal pulse generator control; simultaneous synchronized modulations Step Sweep: 1 to 10,000 steps; 1 kHz to full range step size (0.1 Hz with Option 11); dwell time 1 ms to 99 seconds; up to 1000 stored non-sequential frequencies; typical switching time $<15 \text{ ms} + 1 \text{ ms/GHz}$ or $<40 \text{ ms}$ maximum Analog Sweep: 1 MHz to full range width; linear or logarithmic profiles Frequency Accuracy & Stability: $\pm 2 \times 10^{-8}/\text{day}$ aging ($\pm 5 \times 10^{-10}/\text{day}$ with Option 16); $\pm 2 \times 10^{-8}/^{\circ}\text{C}$ temperature coefficient over 0–55 °C ($\pm 2 \times 10^{-10}/^{\circ}\text{C}$ with Option 16) Time Base: Internal 10 MHz; external 10 MHz reference input; 0.5 V p-p reference output into 50 Ω AC coupled Key Features CW, step sweep, and analog sweep modes Alternate sweep between two independent frequency ranges with different power levels Phase-locked frequency agility with volatile memory storage Low phase noise architecture for sensitive receiver and component testing Typical Applications RF and microwave device evaluation Modulator analysis and characterization Electromagnetic compatibility (EMC) testing RADAR blind spot and pulse modulation testing Compatibility & Integration External 10 MHz reference input accommodates synchronization with precision frequency standards and system-level timing infrastructure.

Features & description

From manufacturer datasheet

Features

- Synthesized signal coverage 0.01 to 26.5 GHz

Applications

- Modulated microwave stimulus 0.01 to 26.5 GHz

69259A Characteristics / Specifications

PARAMETER	VALUE
Model	69259A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Alias	69259A; Anritsu 69259A; Wiltron 69259A
Frequency range	0.01 GHz to 26.5 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
Rack mount option	Option 1
Remote control	GPIB

PARAMETER	VALUE
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 26.5 GHz class	+10 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 26.5 GHz class	+7.5 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	69059A
Related sweep model	69159A
Related sweep signal model	69359A
Primary use	ultra low noise synthesized signal generation 0.01 to 26.5 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×59A / 69259A (0.01–26.5 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	69259A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Specifications	
PARAMETER	VALUE
Alias	69259A; Anritsu 69259A; Wiltron 69259A
Frequency range	0.01 GHz to 26.5 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
Rack mount option	Option 1
Remote control	GPIOB

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 26.5 GHz class: +10 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 26.5 GHz class: +7.5 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	69059A
Related sweep model	69159A

Related sweep signal model: 69359A

Primary use: ultra low noise synthesized signal generation 0.01 to 26.5 GHz

Notes

Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x59A / 69259A (0.01-26.5 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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

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