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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69275A Synthesized Signal Generator, 0.5 to 50.0 GHz

Anritsu 69275A Synthesized Signal Generator 0.5 to 50 GHz The Anritsu/Wiltron 69275A is a 69A Series synthesized signal generator covering 0.5 GHz to 50 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×75A family alongside 69075A (CW), 69175A (sweep), and 69375A (sweep/signal). The Anritsu/Wiltron 69275A is a 69A Series synthesized signal generator covering 0.5 GHz to 50 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×75A family alongside 69075A (CW), 69175A (sweep), and 69375A (sweep/signal).



MODEL

Anritsu 69275A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69275A

LISTING

<https://aumictechlabs.com/products/69275a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69275A is a synthesized signal generator covering 0.5 GHz to 50.0 GHz, engineered for precision testing of wideband RF and microwave systems. It delivers low phase noise performance with consistent amplitude control across its frequency range, making it suitable for component analysis, signal simulation, and automated test equipment integration. Technical Specifications Frequency Range: 0.5 GHz to 50.0 GHz Phase Noise: Ultra-low single sideband (SSB) phase noise across the frequency band Amplitude Control: Consistent amplitude control enabling precise power level setting Output Power: Maximum +17 dBm; minimum -125 dBm

Frequency Resolution: 0.1 Hz available as an option Step Sweep Switching Time: Typically less than 15 ms plus additional time per GHz, maximum 40 ms Maximum Step Count: Up to 10,000 steps supported

Key Features Internal AM, FM, and phase modulation (ϕ M) Pulse modulation with external or internal pulse generator control Doublet, triplet, and quadruplet pulse generation for RADAR blind spot testing User-downloaded complex modulation and arbitrary waveform generation Step sweep with phase-locked frequency steps and selectable dwell time per step Alternate sweep mode between two selected ranges with independent power levels Manual sweep mode with phase-locked frequency adjustment Adjustable step size and step count

Typical Applications Component characterization and analysis Wideband signal simulation Automated test equipment (ATE) systems RF and microwave system testing RADAR signal generation and validation

Compatibility & Integration The 69275A integrates into demanding RF test environments requiring both frequency agility and modulation flexibility. Its modulation architecture supports internal signal generation and user-defined waveform injection for complex simulation scenarios.

Features & description

From manufacturer datasheet

Features

- Synthesized signal coverage 0.5 to 50 GHz

Applications

- Modulated microwave stimulus 0.5 to 50 GHz

69275A Characteristics / Specifications

PARAMETER	VALUE
Model	69275A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Alias	69275A; Anritsu 69275A; Wiltron 69275A
Frequency range	0.5 GHz to 50 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 0.5 to 2.2 GHz class	+12 dBm
Leveled output power greater than 2.2 to 20 GHz class	+10 dBm
Leveled output power greater than 20 to 40 GHz class	+2.5 dBm
Leveled output power greater than 40 to 50 GHz class	+2.5 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	69075A
Related sweep model	69175A
Related sweep signal model	69375A
Primary use	ultra low noise synthesized signal generation 0.5 to 50 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×75A / 69275A (0.5–50 GHz Signal). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm connector and high-band leveled power on label.

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	69275A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Specifications	
PARAMETER	VALUE
Alias	69275A; Anritsu 69275A; Wiltron 69275A
Frequency range	0.5 GHz to 50 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 0.5 to 2.2 GHz class: +12 dBm

Leveled output power greater than 2.2 to 20 GHz class: +10 dBm

Leveled output power greater than 20 to 40 GHz class: +2.5 dBm

Leveled output power greater than 40 to 50 GHz class: +2.5 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	69075A
Related sweep model	69175A

Related sweep signal model: 69375A

Primary use: ultra low noise synthesized signal generation 0.5 to 50 GHz

Notes

Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x75A / 69275A (0.5-50 GHz Signal). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm connector and high-band leveled power on label.

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.