

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ANRITSU

Anritsu 69255A Synthesized Signal Generator, 0.05 to 26.5 GHz

Anritsu 69255A Synthesized Signal Generator 0.5 to 26.5 GHz The Anritsu/Wiltron 69255A is a 69A Series synthesized signal generator covering 0.5 GHz to 26.5 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×55A family alongside 69055A (CW), 69155A (sweep), and 69355A (sweep/signal). The Anritsu/Wiltron 69255A is a 69A Series synthesized signal generator covering 0.5 GHz to 26.5 GHz with external AM/FM/pulse modulation and step/power sweep. It is the signal member of the 69×55A family alongside 69055A (CW), 69155A (sweep), and 69355A (sweep/signal).



MODEL

Anritsu 69255A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69255A

LISTING

<https://aumictechlabs.com/products/69255a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 69255A is a synthesized signal generator delivering precise continuous-wave (CW) output from 0.05 GHz to 26.5 GHz. Engineered for telecommunications, defense, and RF laboratory applications, It has stable frequency generation with 1 kHz resolution and fast switching times suitable for automated test systems. The instrument supports multiple sweep modes, modulation capabilities, and can store up to 1000 non-sequential frequencies for phase-locked step sequencing via GPIB. Technical Specifications Frequency Range: 0.05 GHz to 26.5

GHz Frequency Resolution: 1 kHz (0.1 Hz with Option 11) Frequency Accuracy: Aging: Less than 2×10^{-8} per day (standard); less than 5×10^{-10} per day (Option 16) Temperature: Less than $2 \times 10^{-8}/^{\circ}\text{C}$ over 0°C to 55°C (standard); less than $2 \times 10^{-10}/^{\circ}\text{C}$ (Option 16) Phase Noise: Typical -100 dBc/Hz at 10 kHz offset from 10 GHz Output Power: -125 dBm to $+17$ dBm typical maximum Time Base: Internal high-stability option; external 10 MHz reference input; 10 MHz reference output at 0.5 V p-p into 50Ω Switching Time: Typically less than 40 ms to within 1 kHz of final frequency

Key Features Sweep width independently selectable from 1 MHz to full range Dwell time per step: 1 ms to 99 seconds Step sweep switching: Typically maximum 15 ms + 1 ms/GHz, or less than 40 ms (whichever is less) Alternate sweep mode with independent power level assignment Manual sweep with user-selectable step count or step size AM, FM, and phase modulation support List mode storing up to 1000 frequencies via GPIB (volatile memory)

Typical Applications Telecommunications testing, defense and aerospace system validation, RF component characterization, and integrated automated test environments.

Compatibility & Integration GPIB control interface; phase-locked operation with Wiltron 360B Vector Network Analyzer achieves sweep speeds as low as 8.5 ms/step (100 kHz resolution).

Features & description

From manufacturer datasheet

Features

- Synthesized signal coverage 0.5 to 26.5 GHz

Applications

- Modulated microwave stimulus 0.5 to 26.5 GHz

69255A Characteristics / Specifications

PARAMETER	VALUE
Model	69255A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Alias	69255A; Anritsu 69255A; Wiltron 69255A
Frequency range	0.5 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 0.5 to 2.2 GHz class	+13 dBm
Leveled output power greater than 2.2 to 20 GHz class	+13 dBm
Leveled output power greater than 20 to 26.5 GHz class	+10 dBm
Leveled output with step attenuator 0.5 to 2.2 GHz class	+11 dBm
Leveled output with step attenuator greater than 2.2 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	69055A
Related sweep model	69155A
Related sweep signal model	69355A
Primary use	ultra low noise synthesized signal generation to 26.5 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×55A / 69255A (0.5–26.5 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	69255A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Signal Generator
Specifications	
PARAMETER	VALUE
Alias	69255A; Anritsu 69255A; Wiltron 69255A
Frequency range	0.5 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 0.5 to 2.2 GHz class: +13 dBm

Leveled output power greater than 2.2 to 20 GHz class: +13 dBm

Leveled output power greater than 20 to 26.5 GHz class: +10 dBm

Leveled output with step attenuator 0.5 to 2.2 GHz class: +11 dBm

Leveled output with step attenuator greater than 2.2 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	69055A
Related sweep model	69155A

Related sweep signal model: 69355A

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

Notes

Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x55A / 69255A (0.5–26.5 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.