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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69295A Synthesized Signal Generator, 0.5 to 65.0 GHz

Anritsu 69295A Ultra Low Noise Synthesized Signal Generator 0.5 to 65 GHz The Anritsu/Wiltron 69295A is an ultra-low-noise synthesized signal generator covering 0.5 GHz to 65 GHz in the 69A Series. It provides CW and step-sweep stimulus with comprehensive AM/FM/pulse modulation for broadband millimeter-wave signal simulation and ATE, as the signal-generator member of the 69×95A family with banded leveled output per 6XX95 tables. The Anritsu/Wiltron 69295A is an ultra-low-noise synthesized signal generator covering 0.5 GHz to 65 GHz in the 69A Series. It provides CW and step-sweep stimulus with comprehensive AM/FM/pulse modulation for broadband millimeter-wave signal simulation and ATE, as the signal-generator member of the 69×95A family with banded leveled output per 6XX95 tables.



MODEL

Anritsu 69295A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69295A

LISTING

<https://aumictechlabs.com/products/69295a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69295A is a synthesized signal generator delivering RF and microwave stimulus across 0.5 GHz to 65.0 GHz with exceptional output stability and wide dynamic range. Built for demanding metrology and device characterization, it combines precise frequency control with multiple modulation formats and flexible sweep architectures. The instrument integrates AM, FM,

phase, and pulse modulation alongside user-downloadable complex modulation capabilities, making it suitable for vector network analysis, radar simulation, and broadband receiver testing.

Technical Specifications

Frequency Range: 0.5 GHz to 65.0 GHz

Output Power: +17 dBm maximum; -125 dBm minimum

Phase Noise: Ultra-low single sideband (SSB) phase noise typical of the Anritsu 69A family; SSB phase noise as low as -136 dBc/Hz (typical)

Frequency Resolution: 0.1 Hz (optional, Option 11)

Modulation: Internal AM, FM, phase, and pulse modulation; user-downloadable complex modulation

Sweep Modes: CW or step sweep with variable dwell (1 ms to 99 seconds per step), 1 to 10,000 steps, step size 1 kHz to full range, sweep width 1 kHz to full range. Switching time <15 ms + 1 ms/GHz or <40 ms (typical max.). Alternate sweep mode between dual ranges with independent power levels. Manual sweep provides phase-locked frequency stepping between limits.

Frequency Agility: Programmable GPIB control; stores and addresses up to 1,000 non-sequential frequencies as phase-locked step sweep

Key Features

Excellent output stability for repeatable measurements across wide power range

Step sweep with independently selectable width and dwell time

Phase-locked frequency agility under GPIB command

Dual-range alternate sweep with per-range power assignment

Modulation modes support both standard and custom waveform generation

Typical Applications

Vector network analysis

Radar simulation

Broadband receiver testing

Compatibility & Integration

GPIB interface with IVI technology support; Anritsu provides COM-based IVI drivers for signal generator integration.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 0.5 to 65 GHz
- Ultra low noise 69200A signal generator architecture
- Standard 1 kHz resolution; Option 11 for 0.1 Hz
- Banded leveled power per 6XX95 tables
- Internal/external AM, FM, pulse; optional phase modulation
- Optional Option 16 high-stability oven
- Front-panel LCD and GPIB remote
- V female RF output

Applications

- Broadband modulated stimulus 0.5 to 65 GHz
- Millimeter-wave LO and receiver testing
- GPIB automated component and system characterization
- Signal simulation where coverage starts at 500 MHz
- Low phase noise CW source substitution

69295A Characteristics / Specifications

PARAMETER	VALUE
Model	69295A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Ultra Low Noise Synthesized Signal Generator
Alias	69295A; Anritsu 69295A
Frequency range	0.5 GHz to 65 GHz
Family	69A Series ultra low noise signal generator
Leveled power 0.5 to 2.2 GHz	+11 dBm
Leveled power greater than 2.2 to 20 GHz	+10 dBm
Leveled power greater than 20 to 40 GHz	+2.5 dBm
Leveled power greater than 40 to 50 GHz	0 dBm
Leveled power greater than 50 to 65 GHz	-2 dBm
Step attenuator above 40 GHz	not available per datasheet tables
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz
Frequency resolution Option	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option	less than 5×10^{-10} /day
SSB phase noise at 10 GHz 10 kHz offset	-100 dBc/Hz class
SSB phase noise at 65 GHz 10 kHz offset	-86 dBc/Hz class
AM bandwidth 3 dB	DC to 50 kHz minimum
Pulse PRF leveled	100 Hz to 5 MHz class
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -105 dBm class

PARAMETER	VALUE
Modulation AM FM pulse	internal and external
Remote control	IEEE 488 GPIB
Display	Dot matrix LCD
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
AC power	90 to 132 or 180 to 264 Vac
Power consumption	about 400 VA
RF output connector	TypeVfemale
Related CW model	69095A
Related sweep model	69195A
Related sweep signal peer	69395A
Related 68B counterpart	68295B Notes Power rows from Anritsu 68000B/69000A datasheet 6XX95 tables for 69295A (0.5–65 GHz). Confirm RF connector and Option 11/16 on the unit.
Bandwidth	3 dB: DC to 50 kHz minimum

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	
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PARAMETER	VALUE
AM bandwidth 3 dB	DC to 50 kHz minimum
Pulse PRF leveled	100 Hz to 5 MHz class
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -105 dBm class
Modulation AM FM pulse	internal and external
Remote control	IEEE 488 GPIB
Display	Dot matrix LCD
Dimensions	about 5.25 in H x 16.875 in W x 23.5 in D
Weight	about 50 lb
AC power	90 to 132 or 180 to 264 Vac
Power consumption	about 400 VA
RF output connector	Type V female
Related CW model	69095A
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Leveled power 0.5 to 2.2 GHz	+11 dBm

Leveled power greater than 2.2 to 20 GHz: +10 dBm
Leveled power greater than 20 to 40 GHz: +2.5 dBm
Leveled power greater than 40 to 50 GHz: 0 dBm
Leveled power greater than 50 to 65 GHz: -2 dBm

Specifications

PARAMETER	VALUE
Step attenuator above 40 GHz	not available per datasheet tables
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz
Frequency resolution Option 11	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2 x 10 ⁻⁸ /day
Internal time base aging Option 16	less than 5 x 10 ⁻¹⁰ /day

SSB phase noise at 10 GHz 10 kHz offset: -100 dBc/Hz class
SSB phase noise at 65 GHz 10 kHz offset: -86 dBc/Hz class

Specifications

PARAMETER	VALUE
AM bandwidth 3 dB	DC to 50 kHz minimum
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Notes
Power rows from Anritsu 68000B/69000A datasheet 6XX95 tables for 69295A (0.5–65 GHz). Confirm RF connector and Option 11/16 on the unit.

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