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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69197A Synthesized Sweep Generator, 0.01 GHz to 65.0 GHz

Anritsu 69197A Synthesized Sweep Generator 10 MHz to 65 GHz The Anritsu/Wiltron 69197A is a 69A Series ultra-low-noise synthesized sweep generator covering 0.01 GHz to 65 GHz. It provides broadband analog and phase-locked step sweeps for RF through V-band network analysis as the sweep member of the 69×97A family (typical x97 suffix 0.01–65 GHz). The Anritsu/Wiltron 69197A is a 69A Series ultra-low-noise synthesized sweep generator covering 0.01 GHz to 65 GHz. It provides broadband analog and phase-locked step sweeps for RF through V-band network analysis as the sweep member of the 69×97A family (typical x97 suffix 0.01–65 GHz).



MODEL

Anritsu 69197A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69197A

LISTING

<https://aumictechlabs.com/products/69197a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69197A Synthesized Sweep Generator operates from 0.01 GHz to 65.0 GHz, delivering precise signal generation across an extended microwave and millimeter-wave spectrum. This instrument integrates multiple sweep modes - analog, step, manual, alternate range, and list modes - enabling dynamic frequency analysis for broadband component characterization, radar simulation, and advanced RF/microwave testing. Output power spans from -125 dBm to +17 dBm with 0.01 dB resolution and guaranteed leveled power to +17 dBm across 0–20 GHz. Phase noise

performance reaches -100 dBc SSB at 10 kHz offset from 10 GHz, supporting demanding measurement applications requiring low-noise signal sources.

Technical Specifications

Frequency Range: 0.01 GHz to 65.0 GHz Output Power: Maximum: +17 dBm (guaranteed leveled to 20 GHz) Minimum: -125 dBm Resolution: 0.01 dB steps to -120 dBm Phase Noise: -100 dBc SSB at 10 kHz offset from 10 GHz Frequency Resolution: Standard: 100.0 mHz Optional: 0.1 Hz Switching Time: Typical: less than 40 ms maximum Formula: less than 15 ms + 1 ms/GHz step size

Key Features

Sweep Modes: Analog sweep across full frequency range Step sweep: 1–10,000 steps with variable dwell time (1 ms to 99 s) and step size (1 kHz to full range) Manual sweep with phase-locked discrete frequency adjustment Alternate sweep between two independent ranges with separate power levels List sweep: up to 1,000 non-sequential frequencies Modulation: Internal modes: AM, FM, Pulse, Phase, Scan Seven modulating waveforms including Gaussian noise User-downloadable complex modulation Additional: User level flatness correction Master/slave operation for multi-unit systems Self-test and secure mode GPIB (IEEE 488) interface 13.3 cm package height

Typical Applications Broadband component verification, radar system simulation, RF and microwave device characterization across extended frequency ranges.

Compatibility & Integration GPIB remote programming and control; supports networked multi-generator configurations via master/slave operation.

Features & description

From manufacturer datasheet

Features

- Synthesized sweep coverage 0.01 to 65 GHz
- Analog and phase locked step sweep
- Alternate and manual sweep modes
- Ultra low noise 69100A family
- Optional high band step attenuator options
- Internal leveling at RF output
- Marker functions in analog sweep
- GPIB remote control

Applications

- Broadband swept stimulus 0.01 to 65 GHz
- mmWave network analysis source
- Component frequency response across microwave bands
- ATE rack sweeper with GPIB
- Phase locked step sweeps

69197A Characteristics / Specifications

PARAMETER	VALUE
Model	69197A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep Generator
Alias	69197A; Anritsu 69197A; Wiltron 69197A
Frequency range	10 MHz to 65 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 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 class
Internal time base aging Option	less than 5×10^{-10} /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

PARAMETER	VALUE
Step attenuator option to 50 GHz	Option 2C 90 dB
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
Leveled output power 0.01 to less than 2 GHz class	+12 dBm
Leveled output power 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	0 dBm
Leveled output power greater than 50 to 65 GHz class	-2 dBm
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep	every frequency step phase locked
Output mode	CW and sweep
RF output connector	TypeVfemale
Related CW model	69097A
Related signal model	69297A
Related sweep signal model	69397A
Primary use	ultra low noise synthesized sweep 0.01 to 65 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×97A / 69197A (0.01–65 GHz Sweep). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. ConfirmVconnector 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	
Technical Specifications	
PARAMETER	VALUE
Model	69197A
Manufacturer	Anritsu (Wiltron 69A Series)
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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/deg C typical
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes
CW frequency resolution standard	1 kHz class
CW 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 class
Internal time base aging Option 16	less than 5 x 10^-10/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

PARAMETER	VALUE
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIB
Dimensions	429 mm W x 133 mm H x 597 mm D
Mass	less than or equal to 23 kg

Specifications

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Power level stability vs temperature	0.04 dB/degCtypical
Internal leveling	yes at output connector
RF on off	yes
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CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /day class
Internal time base aging Option 16	less than 5×10^{-10} /day class
Residual FM 0.5 to 1.0 GHz class	less than 10 Hz RMS
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PARAMETER	VALUE
Step attenuator option to 50 GHz	Option 2C 90 dB
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIO
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg

Leveled output power 0.01 to less than 2 GHz class: +12 dBm
Leveled output power 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: 0 dBm
Leveled output power greater than 50 to 65 GHz class: -2 dBm

Specifications

PARAMETER	VALUE
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep	every frequency step phase locked
Output mode	CW and sweep
RF output connector	TypeVfemale
Related CW model	69097A
Related signal model	69297A
Related sweep signal model	69397A
Primary use	ultra low noise synthesized sweep 0.01 to 65 GHz

Notes
Specs from Anritsu/Wiltron 69A Series datasheet for 69x97A / 69197A (0.01-65 GHz Sweep). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. ConfirmVconnector 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 ·
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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.