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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69397A Synthesized Sweep/Signal Generator, 0.01 to 65 GHz

Anritsu 69397A Synthesized Sweep/Signal Generator 10 MHz to 65 GHz The Anritsu/Wiltron 69397A is the ultra-low-noise universal synthesized sweep/signal generator covering 0.01 GHz to 65 GHz in the 69A Series. It combines CW, analog/step sweep, and comprehensive AM/FM/pulse (optional Φ M) modulation in one package for the broadest coax-band signal requirements. The Anritsu/Wiltron 69397A is the ultra-low-noise universal synthesized sweep/signal generator covering 0.01 GHz to 65 GHz in the 69A Series. It combines CW, analog/step sweep, and comprehensive AM/FM/pulse (optional Φ M) modulation in one package for the broadest coax-band signal requirements.



MODEL

Anritsu 69397A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69397A

LISTING

<https://aumictechlabs.com/products/69397a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69397A is a synthesized sweep/signal generator delivering precise, stable RF signal generation across 0.01 to 65 GHz. Purpose-built for local oscillator replacement and demanding CW applications, this instrument combines ultra-low SSB phase noise at -107 dBc/Hz (10 kHz offset from 10 GHz) with flexible sweep architectures and comprehensive modulation capability. Output spans -125 dBm to +17 dBm with optional 0.1 Hz frequency resolution. Technical Specifications Frequency Range: 0.01-65 GHz Output Power: -125 dBm to +17 dBm Phase Noise:

-107 dBc/Hz (10 kHz offset from 10 GHz, SSB) Switching Time: Typically <15 ms + 1 ms/GHz step size, or <40 ms maximum Time Base Stability: Accuracy: Matches internal or external 10 MHz reference Aging: $<2 \times 10^{-8}$ /day (standard); $<5 \times 10^{-10}$ /day with Option 16 Temperature Stability: $<2 \times 10^{-8}$ /°C over 0–55 °C (standard); $<2 \times 10^{-10}$ /°C with Option 16 Memory Storage: Volatile: Four tables, 2000 frequency/power sets each (List Sweep) Non-volatile: One table, 2000 pointsKey Features Sweep Modes: Analog, step, manual, and CW sweep with user-selectable step counts or sizes. Dwell time per step ranges from 1 ms to 99 seconds. Modulation: AM, FM, phase, and pulse modulation via external or internal sources. Internal modulation offers seven waveforms including Gaussian noise and arbitrary user-defined patterns. Reference I/O: Accepts external 10 MHz reference input; provides 0.5 V p-p 10 MHz reference output (50 Ω , AC coupled) from rear panel BNC connector.Interfaces & Integration GPIB (IEEE 488.2), Ethernet (10BASE-T), USB, and AUX I/O connector with TTL triggering support enable both bench and automated system control.Form Factor Rackmount configuration.

Features & description

From manufacturer datasheet

Features

• Full 0.01 to 65 GHz coax coverage (V connector) • CW plus analog, step, alternate, and manual sweep • Internal/external AM, FM, pulse; optional Φ M and complex modulation • Ultra-low SSB phase noise 69A architecture • Power sweep and marker functions • Optional 0.1 Hz resolution and high-stability time base • GPIB remote control • Highest-capability 69A universal source in family table

Applications

• Broadband CW and swept stimulus to 65 GHz • Modulated signal simulation across microwave/mm-wave • Network analysis and ATE with analog and step sweeps • Radar/EW receiver testing with pulse and multi-tone scenarios • Single-instrument replacement for separate CW, sweep, and signal generators

69397A Characteristics / Specifications

PARAMETER	VALUE
Model	69397A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep/Signal Generator
Alias	69397A; Anritsu 69397A
Frequency range	0.01 GHz to 65 GHz
Family	69A Series ultra low noise sweep/signal
Leveled power 0.01 to less than 2 GHz	+12 dBm
Leveled power 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
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator high band	to -105 dBm (-110 dBm typical)
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz
Frequency resolution Option	0.1 Hz
Analog sweep time	30 ms to 99 s
Step sweep steps	1 to 10000
SSB phase noise at 10 GHz 10 kHz offset	-100 dBc/Hz class
SSB phase noise at 65 GHz 10 kHz offset	-88 dBc/Hz class
AM bandwidth 3 dB	DC to 50 kHz minimum
Pulse PRF leveled	100 Hz to 5 MHz class
Pulse PRF unleveled	DC to 10 MHz class
RF output connector	TypeVfemale

PARAMETER	VALUE
Remote control	GPIO
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
AC power	less than or equal to 400 VA class
Related CW model	69097A
Related sweep model	69197A
Related signal generator	69297A
Companion 68B sweep/signal	68395B (0.5 to 65 GHz class in selection table) Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×97A / 69397A (0.01–65 GHz). Confirm options and mm-wave connector/power 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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AM bandwidth 3 dB	DC to 50 kHz minimum
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Remote control	GPIB
Dimensions	429 mm W x 133 mm H x 597 mm D
Mass	less than or equal to 23 kg
AC power	less than or equal to 400 VA class
Related CW model	69097A
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Family	69A Series ultra low noise sweep/signal
Leveled power 0.01 to less than 2 GHz: +12 dBm Leveled power 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	
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SSB phase noise at 10 GHz 10 kHz offset: -100 dBc/Hz class
SSB phase noise at 65 GHz 10 kHz offset: -88 dBc/Hz class

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Notes
Specs from Anritsu/Wiltron 69A Series datasheet for 69x97A / 69397A (0.01-65 GHz). Confirm options and mm-wave connector/power 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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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.