

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ANRITSU

Anritsu 69375A Synthesized Sweep/Signal Generator, 0.5 to 50 GHz

Anritsu 69375A Synthesized Sweep/Signal Generator 0.5 to 50 GHz The Anritsu/Wiltron 69375A is an ultra-low-noise synthesized sweep/signal generator covering 0.5 GHz to 50 GHz in the 69A Series. It unifies CW, analog/step sweep, and comprehensive modulation for universal signal requirements through 50 GHz on a single coax output, as the sweep/signal member of the 69x75A family. The Anritsu/Wiltron 69375A is an ultra-low-noise synthesized sweep/signal generator covering 0.5 GHz to 50 GHz in the 69A Series. It unifies CW, analog/step sweep, and comprehensive modulation for universal signal requirements through 50 GHz on a single coax output, as the sweep/signal member of the 69x75A family.



MODEL

Anritsu 69375A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69375A

LISTING

<https://aumictechlabs.com/products/69375a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 69375A is a synthesized sweep/signal generator covering 0.5 to 50 GHz, engineered for RF component testing and system-level verification across aerospace, defense, telecommunications, and semiconductor applications. It delivers frequency agility with stable output power in demanding microwave environments. Technical Specifications Frequency Range: 0.5 GHz to 50 GHz Sweep Modes: Analog, step, and manual sweep with synthesized phase-locked operation Step Sweep: Variable steps (1 to 10,000) with adjustable step size and dwell time

per step Manual Sweep: Stepped, phase-locked frequency adjustment between defined sweep limits Alternate Sweep: Dual-range sweep capability with independent power levels per range List Sweep Mode: Multiple frequency/power table storage with phase-locked step execution and non-volatile memory Frequency Agility: Programmable storage and addressing of non-sequential frequencies Modulation Support: Internal AM, FM, phase, and pulse modulation; user-downloadable complex modulation available on select configurations

Key Features

Phase-locked synthesized architecture ensures frequency stability across the full 0.5–50 GHz range Multiple sweep topologies enable flexible test sequencing from simple linear sweeps to complex multi-state patterns List mode with non-volatile storage supports repetitive test automation Modulation flexibility supports both standard and custom signal formats 50 Ohm output impedance (standard RF configuration)

Typical Applications

Component characterization and S-parameter measurement Receiver and transmitter system validation Frequency response testing of RF subsystems Modulated signal generation for communication system test Phase-locked frequency switching in automated test sequences

Compatibility & Integration

The 69375A integrates into automated test systems through programmable sweep control, list mode sequencing, and phase-locked frequency switching. Non-volatile storage enables autonomous multi-step test execution without host system intervention between measurement cycles.

Features & description

From manufacturer datasheet

Applications

- CW and swept stimulus 0.5 to 50 GHz

69375A Characteristics / Specifications

PARAMETER	VALUE
Model	69375A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep/Signal Generator
Alias	69375A; Anritsu 69375A
Frequency range	0.5 GHz to 50 GHz
Family	69A Series ultra low noise sweep/signal
Leveled power 0.5 to 2.2 GHz	+12 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	+2.5 dBm
Leveled power with step attenuator 0.5 to 2.2 GHz	+10 dBm
Leveled power with step attenuator greater than 2.2 to 20 GHz	+8.5 dBm
Leveled power with step attenuator greater than 20 to 40 GHz	0 dBm
Leveled power with step attenuator greater than 40 to 50 GHz	-1.5 dBm
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 50 GHz 10 kHz offset	-88 dBc/Hz class
AM bandwidth 3 dB	DC to 50 kHz minimum

PARAMETER	VALUE
Pulse PRF leveled	100 Hz to 5 MHz class
RF output connector	TypeVfemale
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg
Related CW model	69075A
Related sweep model	69175A
Related signal generator	69275A
Related 68B counterpart	68369B class selection table Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×75A / 69375A (0.5–50 GHz). Confirm options and leveled 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

Specifications

PARAMETER	VALUE
Model	69375A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep/Signal Generator

Specifications

PARAMETER	VALUE
Alias	69375A; Anritsu 69375A
Frequency range	0.5 GHz to 50 GHz
Family	69A Series ultra low noise sweep/signal

Leveled power 0.5 to 2.2 GHz: +12 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: +2.5 dBm

Leveled power with step attenuator 0.5 to 2.2 GHz: +10 dBm

Leveled power with step attenuator greater than 2.2 to 20 GHz: +8.5 dBm

Leveled power with step attenuator greater than 20 to 40 GHz: 0 dBm

Leveled power with step attenuator greater than 40 to 50 GHz: -1.5 dBm

Specifications

PARAMETER	VALUE
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz
Frequency resolution Option 11	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 50 GHz 10 kHz offset: -88 dBc/Hz class

Specifications

PARAMETER	VALUE
AM bandwidth 3 dB	DC to 50 kHz minimum
Pulse PRF leveled	100 Hz to 5 MHz class
RF output connector	TypeVfemale

Specifications

PARAMETER	VALUE
Remote control	GPIOB
Dimensions	429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg
Related CW model	69075A

Specifications

PARAMETER	VALUE
Related sweep model	69175A
Related signal generator	69275A
Related 68B counterpart	68369B class selection table

Notes

Specs from Anritsu/Wiltron 69A Series datasheet for 69x75A / 69375A (0.5–50 GHz). Confirm options and leveled 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

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.