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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69385A Synthesized Sweep/Signal Generator, 0.5 to 60 GHz

Anritsu 69385A Synthesized Sweep/Signal Generator 0.5 to 60 GHz The Anritsu/Wiltron 69385A is an ultra-low-noise synthesized sweep/signal generator covering 0.5 GHz to 60 GHz in the 69A Series. It unifies CW, analog/step sweep, and comprehensive modulation for universal signal requirements through 60 GHz on a single coax output, as the sweep/signal member of the 69×85A family. The Anritsu/Wiltron 69385A is an ultra-low-noise synthesized sweep/signal generator covering 0.5 GHz to 60 GHz in the 69A Series. It unifies CW, analog/step sweep, and comprehensive modulation for universal signal requirements through 60 GHz on a single coax output, as the sweep/signal member of the 69×85A family.



MODEL

Anritsu 69385A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69385A

LISTING

<https://aumictechlabs.com/products/69385a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69385A is a synthesized sweep/signal generator delivering precise RF and microwave signal generation across 0.5 GHz to 60 GHz. It combines multiple sweep modes - linear, logarithmic, list, and frequency hop - with comprehensive modulation capabilities (AM, FM, and pulse) to address demanding production testing, R&D, and system integration workflows. The instrument offers output power from -120 dBm to +20 dBm with frequency switching under 50 ms

and amplitude switching under 20 ms, ensuring rapid stimulus application across broadband test scenarios.

Technical Specifications

Frequency & Switching Frequency range: 0.5 GHz to 60 GHz
Frequency switching speed: < 50 ms (typical, between any two frequencies)
Amplitude switching speed: < 20 ms (typical)
Residual FM: < 2 Hz RMS at 1 GHz carrier
Output Power Range: -120 dBm to +20 dBm (typical, frequency dependent)
Output impedance: 50 Ohms
VSWR: < 2.0:1 (typical)
Power accuracy: ± 1.0 dB at +10 dBm (1 GHz); ± 1.5 dB at +10 dBm (10 GHz); ± 2.0 dB at +0 dBm (60 GHz)
Signal Purity Phase noise: < -105 dBc/Hz at 10 kHz offset (1 GHz); < -100 dBc/Hz (10 GHz); < -90 dBc/Hz (60 GHz)
Harmonic distortion: < -30 dBc (typical)
Spurious signals: 60 dB on/off ratio, 100 ns to CW pulse width, 10 Hz to 100 kHz PRF

Key Features

Four sweep modes for flexible test stimulus generation
 GPIB (IEEE-488) and Ethernet (LAN) for integrated test automation
 SCPI command support for programmable instrument control
 USB interface for firmware updates

Typical Applications

Production testing of RF/microwave components and subsystems
 Component characterization in R&D laboratories
 System-level integration verification
 Broadband frequency response measurement

Compatibility & Integration

Control via GPIB (IEEE-488), Ethernet (LAN), and USB interfaces. SCPI programming support enables integration into automated test environments and network-based measurement systems.

Features & description

From manufacturer datasheet

Applications

- CW and swept stimulus 0.5 to 60 GHz

69385A Characteristics / Specifications

PARAMETER	VALUE
Model	69385A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep/Signal Generator
Alias	69385A; Anritsu 69385A
Frequency range	0.5 GHz to 60 GHz
Family	69A Series ultra low noise sweep/signal
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	+2 dBm
Leveled power greater than 50 to 60 GHz	+2 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
Leveled power with step attenuator greater than 50 to 60 GHz	-2 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

PARAMETER	VALUE
SSB phase noise at 50 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
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	69085A
Related sweep model	69185A
Related signal generator	69285A Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×85A / 69385A (0.5–60 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

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Model	69385A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep/Signal Generator

Specifications

PARAMETER	VALUE
Alias	69385A; Anritsu 69385A
Frequency range	0.5 GHz to 60 GHz
Family	69A Series ultra low noise sweep/signal

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: +2 dBm

Leveled power greater than 50 to 60 GHz: +2 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

Leveled power with step attenuator greater than 50 to 60 GHz: -2 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	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg
Related CW model	69085A

Related sweep model: 69185A

Related signal generator: 69285A

Notes

Specs from Anritsu/Wiltron 69A Series datasheet for 69x85A / 69385A (0.5–60 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
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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.