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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69387A Synthesized Sweep/Signal Generator, 0.01 â€" 60 GHz

Anritsu 69387A Synthesized Sweep/Signal Generator 10 MHz to 60 GHz The Anritsu/Wiltron 69387A is an ultra-low-noise synthesized sweep/signal generator covering 0.01 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. The Anritsu/Wiltron 69387A is an ultra-low-noise synthesized sweep/signal generator covering 0.01 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.



MODEL

Anritsu 69387A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69387A

LISTING

<https://aumictechlabs.com/products/69387a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69387A is a synthesized sweep/signal generator delivering precise signal generation from 0.01 GHz to 60 GHz. Built for RF/microwave system analysis and validation, it combines ultra-low phase noise with rapid frequency tuning and sophisticated modulation capabilities. The instrument executes complex measurement scenarios through step and analog sweep modes, pulse modulation with configurable waveforms, and synchronized multi-modulation control. Technical Specifications Frequency Range: 0.01 GHz to 60 GHz Tuning Speed: Typically less than 40 ms to settle within 1 kHz of final frequency. Step sweep maximum switching time is

less than 15 ms + 1 ms/GHz step size, or less than 40 ms, whichever is smaller. Phase Noise: Ultra-low SSB phase noise at -100 dBc (10 kHz offset from 10 GHz). Time Base Accuracy: Stability depends on 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 across 0°C to 55°C ($< 2 \times 10^{-10}$ /°C with Option 16). Reference Output: 10 MHz reference, 0.5 V p-p into 50 Ω , AC coupled, rear-panel BNC.

Key Features

Step Sweep: 1 to 10,000 selectable steps with 1 kHz step resolution (0.1 Hz with Option 11); variable dwell time from 1 ms to 99 seconds

Analog Frequency Sweep: Sweep width selectable from 1 MHz to full 60 GHz range

Modulation: Internal AM, FM, Phase, and Pulse modulation with up to 7 waveforms including user-defined arbitrary waveforms

Pulse Capabilities: Configurable doublet, triplet, and quadruplet pulse generation for radar blind spot testing; internal or external parameter control

Synchronized Modulation: Simultaneous multi-modulation for complex signal generation across full frequency range

Sweep Triggering: Auto, External (TTL low-to-high), and Single modes for analog frequency sweep, step sweep, and CW power sweep

External 10 MHz Reference Input: Accepts external time base

TTL Triggering: Auxiliary I/O for sweep control

GPIOB Control: Supports up to 1000 non-sequential addresses

Typical Applications

Communication system validation, receiver testing, radar system analysis, and electronic component characterization across X-, Ku-, and Ka-band frequencies.

Compatibility & Integration

GPIOB-addressable instrument with external reference clock capability and TTL trigger support for automated test sequences.

Features & description

From manufacturer datasheet

Features

- Coverage 0.01 to 60 GHz
- Ultra-low-noise 69300A universal architecture
- Analog, step, alternate, and manual sweep
- Internal/external AM, FM, pulse; optional Φ M
- Optional complex modulation and internal power meter
- Optional 0.1 Hz resolution and oven time base
- GPIB remote control
- V female RF output

Applications

- CW and swept stimulus to 60 GHz
- Modulated microwave/mm-wave signal simulation
- Network analysis and ATE source applications
- Radar/EW receiver testing
- Single-box replacement for separate CW/sweep/signal instruments

69387A Characteristics / Specifications

PARAMETER	VALUE
Model	69387A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep/Signal Generator
Alias	69387A; Anritsu 69387A
Frequency range	0.01 GHz to 60 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	+2 dBm
Leveled power greater than 50 to 60 GHz	+2 dBm
Leveled power with step attenuator 0.01 to less than 2 GHz	+10 dBm
Leveled power with step attenuator 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
RF output connector	TypeVfemale
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
Related CW model	69087A
Related sweep model	69187A
Related signal generator	69287A Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×87A / 69387A (0.01–60 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	
PARAMETER	VALUE
AM bandwidth 3 dB	DC to 50 kHz minimum
RF output connector	Type V female
Remote control	GPIO
Dimensions	429 mm W x 133 mm H x 597 mm D
Mass	less than or equal to 23 kg
Related CW model	69087A
Related sweep model	69187A
Related signal generator	69287A
Specifications	
PARAMETER	VALUE
Model	69387A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep/Signal Generator
Alias	69387A; Anritsu 69387A
Frequency range	0.01 GHz to 60 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: +2 dBm Leveled power greater than 50 to 60 GHz: +2 dBm Leveled power with step attenuator 0.01 to less than 2 GHz: +10 dBm Leveled power with step attenuator 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

PARAMETER	VALUE
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
RF output connector	TypeVfemale
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
Related CW model	69087A
Related sweep model	69187A
Related signal generator	69287A

Notes
Specs from Anritsu/Wiltron 69A Series datasheet for 69x87A / 69387A (0.01-60 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

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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.