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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69187A Ultra Low Noise Synth Sweep Generator

Anritsu 69187A Synthesized Sweep Generator 10 MHz to 60 GHz The Anritsu/Wiltron 69187A is a 69A Series synthesized sweep generator covering 0.01 GHz to 60 GHz. It provides broadband analog and step sweeps for RF through V-band network analysis as the sweep member of the 69×87A family. The Anritsu/Wiltron 69187A is a 69A Series synthesized sweep generator covering 0.01 GHz to 60 GHz. It provides broadband analog and step sweeps for RF through V-band network analysis as the sweep member of the 69×87A family.



MODEL

Anritsu 69187A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69187A

LISTING

<https://aumictechlabs.com/products/69187a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69187A Ultra Low Noise Synth Sweep Generator is a microprocessor-based RF instrument engineered for applications demanding exceptional signal purity and frequency stability. Operating from 0.01 GHz to 60 GHz, it delivers synthesized CW and swept outputs with phase noise performance of -100 dBc at 10 kHz offset from 10 GHz. The instrument supports four independent sweep modes - analog, step, manual, and alternate - with switching times below 40 ms to within 1 kHz of final frequency. Twenty presettable CW frequencies (F0-F9, M0-M9) enable rapid configuration for multi-frequency test sequences. Technical Specifications Frequency & Output Power Frequency range: 0.01 GHz to 60 GHz Output power: -125 dBm to +17 dBm

maximum; leveled power guaranteed to +17 dBm up to 20 GHz Output impedance: 50 Ω
Frequency resolution: 1 kHz (0.1 Hz with Option 11) Phase Noise & Spectral Purity Ultra-low SSB
phase noise: -100 dBc at 10 kHz offset from 10 GHz Low spurious signal content Sweep
Capabilities Analog sweep: Full range continuous with independently selected sweep widths from
1 MHz to full span Step sweep: 1 to 10,000 steps with user-selectable step size or step count;
dwell time 1 ms to 99 seconds Manual sweep: Stepped phase-locked frequency adjustment
between limits Alternate sweep: Two independent ranges with selectable power levels per range
Maximum switching time: <40 ms typical to within 1 kHz; step sweep <15 ms + 1 ms/GHz or <40
ms typical Frequency Accuracy & Stability Internal time base aging: <2 $\times 10^{-8}$ /day (Option 16:
<5 $\times 10^{-10}$ /day) Temperature stability: <2 $\times 10^{-8}$ /°C over 0–55 °C (Option 16: <2 $\times 10^{-10}$ /°C) Frequency
accuracy matches internal or external 10 MHz reference Modulation Internal AM, FM, phase
modulation, and pulse modulation Seven modulating waveforms including Gaussian noise; user-
defined arbitrary waveforms supported Pulse modulation: Doublet, triplet, or quadruplet pulse
generation for RADAR testing Simultaneous synchronized modulations enabledKey Features
Twenty independent presettable CW frequencies for rapid test switching Trigger options: Auto,
external TTL, or single-shot Microprocessor control for high-resolution phase-lock
synthesisTypical Applications RF component characterization, receiver sensitivity testing, RADAR
system validation, phase noise measurement, and broadband signal generation across microwave
and millimeter-wave bands.Compatibility & Integration External trigger input via AUX I/O supports
automated test sequences. Accepts internal or external 10 MHz time base references for
synchronized multi-instrument configurations.

Features & description

From manufacturer datasheet

Features

- Synthesized sweep coverage 0.01 to 60 GHz

Applications

- Broadband swept stimulus 0.01 to 60 GHz

69187A Characteristics / Specifications

PARAMETER	VALUE
Model	69187A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep Generator
Alias	69187A; Anritsu 69187A; Wiltron 69187A
Frequency range	10 MHz to 60 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 accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /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
Step attenuator option to 60 GHz	Option 2D 90 dB

PARAMETER	VALUE
Rack mount option	Option 1
Remote control	GPIB
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	+2 dBm
Leveled output power greater than 50 to 60 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
Related CW model	69087A
Related signal model	69287A
Related sweep signal model	69387A
Primary use	ultra low noise synthesized sweep 0.01 to 60 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×87A / 69187A (0.01–60 GHz Sweep). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm connector 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	
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PARAMETER	VALUE
Model	69187A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep Generator
Specifications	
PARAMETER	VALUE
Alias	69187A; Anritsu 69187A; Wiltron 69187A
Frequency range	10 MHz to 60 GHz
Family	69A Series ultra low noise
Specifications	
PARAMETER	VALUE
Output power resolution	0.01 dB
Source impedance	50 ohm nominal
Source SWR internal leveling below 2 GHz	less than 1.7 typical
Specifications	
PARAMETER	VALUE
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
Specifications	
PARAMETER	VALUE
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes

Specifications

PARAMETER	VALUE
CW frequency resolution standard	1 kHz class
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2 x 10 ⁻⁸ /day class

Specifications

PARAMETER	VALUE
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

Specifications

PARAMETER	VALUE
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

Specifications

PARAMETER	VALUE
Step attenuator option to 60 GHz	Option 2D 90 dB
Rack mount option	Option 1
Remote control	GPIB

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: +2 dBm

Leveled output power greater than 50 to 60 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

Specifications

PARAMETER	VALUE
Output mode	CW and sweep
Related CW model	69087A
Related signal model	69287A

Related sweep signal model: 69387A

Primary use: ultra low noise synthesized sweep 0.01 to 60 GHz

Notes

Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x87A / 69187A (0.01-60 GHz Sweep). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm connector 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

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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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.