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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69087A Synthesized CW Generator, 0.01 â€" 65 GHz

Anritsu 69087A Synthesized CW Generator 10 MHz to 60 GHz The Anritsu/Wiltron 69087A is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 60 GHz in the 69A Series. It provides leveled CW RF on a single coax output for LO replacement and high-purity stimulus from RF through V-band, as the CW member of the 69×87A family. The Anritsu/Wiltron 69087A is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 60 GHz in the 69A Series. It provides leveled CW RF on a single coax output for LO replacement and high-purity stimulus from RF through V-band, as the CW member of the 69×87A family.



MODEL

Anritsu 69087A

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

69087A

LISTING

<https://aumictechlabs.com/products/69087a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 69087A is a synthesized CW generator delivering precise RF output across 0.01 to 65 GHz. Built for applications requiring exceptional frequency stability and low noise performance, this instrument serves broadband communications, aerospace, and defense testing environments. The synthesized architecture provides 100.0 mHz frequency resolution (0.1 Hz optional) and stable +12 dBm output power. Internal modulation supports AM, FM, pulse, and phase modes, with user-downloadable complex modulation capabilities. Step sweep functionality spans 1 to 10,000 steps with 1 kHz minimum step size, supporting dwell times from 1 ms to 99 seconds and typical

switching times under 15 ms plus 1 ms per GHz. Phase noise performance reaches typically -100 dBc at 10 kHz offset from a 10 GHz carrier, while spurious signals remain exceptionally low across the frequency range. Frequency accuracy tracks the internal or external 10 MHz time base with aging below 2×10^{-8} /day and temperature stability of $2 \times 10^{-8}/^{\circ}\text{C}$ (0 to 55°C). Optional stability enhancements reduce aging to 5×10^{-10} /day and temperature drift to $2 \times 10^{-10}/^{\circ}\text{C}$. The instrument accepts external 10 MHz reference input and provides 10 MHz reference output at 0.5 V p-p into 50 Ω . Front-panel control enables immediate operation; IEEE-488 GPIB connectivity supports remote automation. Optional SCPI programmability and application drivers extend integration flexibility. Alternate sweep mode enables rapid transitions between two frequency ranges with independent power levels. Manual sweep mode provides phase-locked frequency stepping across defined limits. The 69087A integrates into the broader 69000A/68000B series ecosystem for coordinated test solutions.

Features & description

From manufacturer datasheet

Features

- Synthesized CW coverage 0.01 to 60 GHz single coax

Applications

- Broadband CW LO substitution to 60 GHz

69087A Characteristics / Specifications

PARAMETER	VALUE
Model	69087A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator
Alias	69087A; Anritsu 69087A; Wiltron 69087A
Frequency range	0.01 GHz to 60 GHz
Family	69A Series ultra low noise
Output mode	CW
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
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
CW frequency resolution standard	1 kHz

PARAMETER	VALUE
CW frequency resolution Option	0.1 Hz
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option	less than 5×10^{-10} /day
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
RF output connector	TypeVfemale
Remote control	GPIB
Dimensions	429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg
Related sweep model	69187A
Related signal generator	69287A
Related sweep signal	69387A Notes Specs from Anritsu/Wiltron 69A Series datasheet for 69×87A / 69087A (0.01–60 GHz CW). Confirm options and banded leveled power on the calibration 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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Model	69087A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized CW Generator

Specifications

PARAMETER	VALUE
Alias	69087A; Anritsu 69087A; Wiltron 69087A
Frequency range	0.01 GHz to 60 GHz
Family	69A Series ultra low noise

Output mode: CW

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
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

Specifications

PARAMETER	VALUE
CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz
Internal time base aging	less than 2×10^{-8} /day

Internal time base aging Option 16: less than 5×10^{-10} /day

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
RF output connector	TypeVfemale
Remote control	GPIOB
Dimensions	429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg

Specifications

PARAMETER	VALUE
Related sweep model	69187A
Related signal generator	69287A
Related sweep signal	69387A

Notes

Specs from Anritsu/Wiltron 69A Series datasheet for 69x87A / 69087A (0.01–60 GHz CW). Confirm options and banded leveled power on the calibration 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
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<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.