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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69087B Ultra Low Noise Synthesized CW Generator, 0.01 â€" 60 GHz

Anritsu 69087B Synthesized CW Generator 10 MHz to 60 GHz The Anritsu 69087B is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 60 GHz in the 69000B family. It provides broadband coax CW stimulus with banded leveled power into the V-band region, digital sweeps, and GPIB automation for LO and ATE use. The Anritsu 69087B is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 60 GHz in the 69000B family. It provides broadband coax CW stimulus with banded leveled power into the V-band region, digital sweeps, and GPIB automation for LO and ATE use.



MODEL

Anritsu 69087B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69087B

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69087B is a synthesized CW generator delivering ultra-low noise performance across 0.01 GHz to 60 GHz, engineered for RF and microwave applications demanding exceptional signal purity. This instrument combines wide dynamic range output control, fast frequency switching, and integrated list-mode capability for automated test environments. Its compact 13.3 cm footprint minimizes rack real estate while maintaining the high output power required to compensate for switching losses and cable attenuation in complex ATE systems. Technical Specifications

Frequency Range: 0.01 GHz to 60 GHz. Optional frequency extension available down to 0.1 Hz. Output Power: +12 dBm to -15 dBm typical; -20 dBm guaranteed across the full range. Leveled output guaranteed to +17 dBm from DC to 20 GHz. Fine output level control with 0.01 dB resolution down to -120 dBm. Phase Noise: Ultra-low SSB phase noise characteristic of the series - below -60 dBc at 10 kHz offset (referenced to 10 GHz). Frequency Resolution: 100.0 mHz standard; 0.1 Hz resolution available as an option. Switching Speed: Frequency hop settling in less than 5 ms for step sizes below 100 MHz. Spurious Performance: Ultra-low spurious signal content across the operating range. Frequency Stability: Oven-stabilized internal reference oscillators ensure stability better than 5×10^{-10} per day.

Key Features

- Synthesized CW signal generation with digital frequency and power sweep
- Internal list mode for programmable frequency and level sequencing
- SCPI command set available for remote instrument control
- High output power capability to meet ATE insertion loss requirements

Typical Applications

- Signal integrity testing, radar simulation, RF subsystem characterization, and advanced microwave signal sourcing in production test environments.

Compatibility & Integration

- Optional SCPI programmability enables integration into standard test frameworks.
- Free application drivers supplied for IVICOM and National Instruments LabView® environments.

Features & description

From manufacturer datasheet

Features

- Coverage 0.01 to 60 GHz single coax
- Ultra-low-noise 69B CW architecture
- Digital frequency and power sweep
- Wide dynamic range with mechanical or electronic attenuator options
- Optional 0.1 Hz resolution and oven time base
- Fast switching for ATE throughput
- GPIB remote control
- V connector class for high-band models

Applications

- Broadband CW LO substitution to 60 GHz
- mm-wave component and receiver CW stimulus
- ATE racks needing ultra-low phase noise to 60 GHz
- Converter and mixer LO sources
- Upgradeable 69B synthesizer platform

69087B Characteristics / Specifications

PARAMETER	VALUE
Model	69087B
Manufacturer	Anritsu
Instrument Type	Synthesized CW Generator
Alias	69087B; Anritsu 69087B
Frequency range	0.01 GHz to 60 GHz
Family	69000B synthesizers
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	+2.0 dBm
Leveled power greater than 50 to 60 GHz	+2.0 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	-2.0 dBm
Minimum leveled power without attenuator	to -15 dBm class
Minimum leveled power with attenuator high band	to -105 dBm class
Output power resolution	0.01 dB
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz

PARAMETER	VALUE
Internal time base aging Option	less than 5×10^{-10} /day
SSB phase noise at 10 GHz 10 kHz offset	ultra-low 69B class (see datasheet curves)
SSB phase noise at 50 GHz 10 kHz offset	see 69B tables
RF output connector	TypeVfemale
Remote control	GPIB
Dimensions	133 mmHx 429 mmWx 597 mmDRelatedArevision CW: 69087A
Related sweep/signal 68C	68387C
Related sweep/signal 69B	69387B Notes Specs from Anritsu 69000B/68000C Series datasheet for 69×87B / 69087B (0.01–60 GHz). Confirm banded power on cal label and connector.

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	69087B
Manufacturer	Anritsu
Instrument Type	Synthesized CW Generator
Alias	69087B; Anritsu 69087B
Frequency range	0.01 GHz to 60 GHz
Family	69000B synthesizers

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: +2.0 dBm
Leveled power greater than 50 to 60 GHz: +2.0 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: -2.0 dBm

Specifications

PARAMETER	VALUE
Minimum leveled power without attenuator	to -15 dBm class
Minimum leveled power with attenuator high band	to -105 dBm class
Output power resolution	0.01 dB
CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz
Internal time base aging Option 16	less than 5 x 10^-10/day

SSB phase noise at 10 GHz 10 kHz offset: ultra-low 69B class (see datasheet curves)
SSB phase noise at 50 GHz 10 kHz offset: see 69B tables

Specifications

PARAMETER	VALUE
RF output connector	TypeVfemale

PARAMETER	VALUE
Remote control	GPIB
Dimensions	133 mmHx 429 mmWx 597 mmDRelatedArevision CW: 69087A
Related sweep/signal 68C	68387C
Related sweep/signal 69B	69387B

Notes
Specs from Anritsu 69000B/68000C Series datasheet for 69x87B / 69087B (0.01-60 GHz). Confirm banded power on cal label and connector.

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 ·
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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.