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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69097B Ultra Low Noise Synthesized CW Generator, 0.01 GHz to 65 GHz

Anritsu 69097B Synthesized CW Generator 10 MHz to 65 GHz The Anritsu 69097B is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 65 GHz in the 69000B family—the broadest coax CW coverage in the 69B CW column. It is intended for LO replacement and high-purity CW stimulus through 65 GHz with digital sweeps and GPIB control. The Anritsu 69097B is an ultra-low-noise synthesized CW generator covering 0.01 GHz to 65 GHz in the 69000B family—the broadest coax CW coverage in the 69B CW column. It is intended for LO replacement and high-purity CW stimulus through 65 GHz with digital sweeps and GPIB control.



MODEL

Anritsu 69097B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

69097B

LISTING

<https://aumictechlabs.com/products/69097b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69097B is a synthesized CW generator delivering ultra-low phase noise across 0.01 GHz to 65 GHz. Purpose-built for radar, communication systems, and precision laboratory testing, it combines exceptional SSB phase noise performance with spurious signal suppression required for sensitive measurements. The instrument features fast phase-locked step switching, leveled output down to -120 dBm in 0.01 dB resolution, and optional frequency stability to 5×10^{-10} /day

with aging. Its compact 13.3 cm height fits A.T.E. rack configurations while maintaining full frequency and power sweep capabilities across the entire band.

Technical Specifications

Frequency Range: 0.01 GHz to 65 GHz Optional extension: Down to 0.1 Hz Resolution: 100.0 mHz standard; 0.1 Hz optional Frequency stability (internal time base): $<2 \times 10^{-8}$ /day aging; $<2 \times 10^{-8}/^{\circ}\text{C}$ temperature Option 16 stability: $<5 \times 10^{-10}$ /day aging; $<2 \times 10^{-10}/^{\circ}\text{C}$ temperature

Output Power Range: +12 dBm to -15 dBm typical (-20 dBm extended) Leveled minimum: -15 dBm standard; -120 dBm with attenuator Resolution: 0.01 dB logarithmic Output impedance: 50 Ohms Guaranteed leveled power: +17 dBm to 20 GHz; +2.5 dBm to 40 GHz; +6 dBm to 40 GHz

Noise & Spurious SSB phase noise: -78 dBc to -131 dBc at 10 GHz carrier (offset dependent) Spurious signals: Ultra-low performance

Sweep Modes Digital frequency and power sweep with manual stepped or phase-locked modes List sweep: Up to 2000 non-sequential frequency/power sets Phase-locked step width: 1 kHz to full range (0.1 Hz optional) Switching time: <5 ms for steps <100 MHz

Key Features

Synthesized CW generation with phase-locked frequency adjustment Configurable platform within 69000B series architecture 0.01 dB output power resolution for precise level control Fast 5 ms switching enables rapid frequency/power stepping

Typical Applications

Radar system development and testing Communication system characterization Phase noise sensitive measurement campaigns Multi-frequency signal generation for component evaluation

Compatibility & Integration

Part of the Anritsu 69000B modular generator series supporting tailored configurations from basic CW to full-featured synthesis with sweep automation.

Features & description

From manufacturer datasheet

Features

- Coverage 0.01 to 65 GHz single coax
- Ultra-low-noise 69B CW architecture
- Digital frequency and power sweep
- Optional 0.1 Hz resolution and oven time base
- Wide dynamic range with attenuator options
- Fast switching for ATE throughput
- GPIB remote control
- V female RF output

Applications

- Broadband CW LO substitution to 65 GHz
- mm-wave component and system CW stimulus
- ATE racks requiring ultra-low phase noise to 65 GHz
- Converter LO sources across microwave/mm-wave
- Upgradeable 69B synthesizer platform

69097B Characteristics / Specifications

PARAMETER	VALUE
Model	69097B
Manufacturer	Anritsu
Instrument Type	Synthesized CW Generator
Alias	69097B; Anritsu 69097B
Frequency range	0.01 GHz to 65 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	0 dBm
Leveled power greater than 50 to 65 GHz	-2 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
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	ultra-low 69B class
SSB phase noise at 65 GHz 10 kHz offset	see 69B tables
Waveguide extensions	to 110 GHz with source modules class
RF output connector	TypeVfemale
Remote control	GPIO
Dimensions	133 mmHx 429 mmWx 597 mmDRelatedArevision CW: 69097A

PARAMETER	VALUE
Related sweep/signal 68C	68397C
Related sweep/signal 69B	69397B
Related 0.5 start CW sibling	69095B class Notes Specs from Anritsu 69000B/68000C Series datasheet for 69×97B / 69097B (0.01–65 GHz). Confirm options and mm-wave power on the unit.

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
Waveguide extensions	to 110 GHz with source modules class
RF output connector	Type V female
Remote control	GPIO
Dimensions	133 mm H x 429 mm W x 597 mm D
Related A revision CW	69097A
Related sweep/signal 68C	68397C
Related sweep/signal 69B	69397B
Related 0.5 start CW sibling	69095B class
Specifications	
PARAMETER	VALUE
Model	69097B
Manufacturer	Anritsu
Instrument Type	Synthesized CW Generator
Alias	69097B; Anritsu 69097B
Frequency range	0.01 GHz to 65 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: 0 dBm Leveled power greater than 50 to 65 GHz: -2 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

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: ultra-low 69B class

SSB phase noise at 65 GHz 10 kHz offset: see 69B tables

Specifications

PARAMETER	VALUE
Waveguide extensions	to 110 GHz with source modules class
RF output connector	TypeVfemale
Remote control	GPIB
Dimensions	133 mmHx 429 mmWx 597 mmDRelatedArevision CW: 69097A
Related sweep/signal 68C	68397C
Related sweep/signal 69B	69397B
Related 0.5 start CW sibling	69095B class

Notes

Specs from Anritsu 69000B/68000C Series datasheet for 69x97B / 69097B (0.01–65 GHz). Confirm options and mm-wave 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.