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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68097B Synthesized CW Generator, 0.01 GHz to 65.0 GHz

Anritsu 68097B Synthesized CW Generator 10 MHz to 65 GHz The Anritsu 68097B is a synthesized CW generator covering 10 MHz to 65 GHz in the 68000B family. It provides phase-locked CW and step sweep with banded leveled power for LO replacement and ATE through the widest coaxial coverage in the 68B El Toro family. The Anritsu 68097B is a synthesized CW generator covering 10 MHz to 65 GHz in the 68000B family. It provides phase-locked CW and step sweep with banded leveled power for LO replacement and ATE through the widest coaxial coverage in the 68B El Toro family.



MODEL

Anritsu 68097B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68097B

LISTING

<https://aumictechlabs.com/products/68097b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 68097B is a synthesized CW generator covering 0.01 GHz to 65.0 GHz in a single coaxial output. Engineered for precision RF stimulus and swept measurement applications, it delivers ultra-low phase noise and exceptional frequency stability across demanding test environments. The instrument supports internal AM, FM, ØM, and pulse modulation, plus user-downloaded complex modulation. Step sweep capability spans 1 to 10,000 steps with 1 kHz minimum step size (optional 0.1 Hz resolution) and configurable dwell times from 1 ms to 99

seconds. Alternate sweep mode enables frequency sweeping between two independently configured ranges at different power levels. Manual sweep provides stepped, phase-locked frequency adjustment with user-selectable step counts or sizes. Remote interface support enables integration into automated test systems.

Technical Specifications

Frequency Range: 0.01 GHz to 65.0 GHz
Output Power: Maximum +17 dBm, minimum -125 dBm
Phase Noise: -100 dBc/Hz SSB at 10 kHz offset from 10 GHz
Frequency Resolution: 1 kHz standard; optional 0.1 Hz resolution available
Step Sweep: 1 to 10,000 steps; dwell time 1 ms to 99 seconds; switching time <15 ms + 1 ms/GHz step size or <40 ms, whichever is less
Modulation: Internal AM, FM, ØM, pulse; user-downloaded complex modulation supported
Spurious Output: Low spurious signal performance

Key Features

- Alternate sweep mode with independent power levels per range
- Manual sweep with phase-locked frequency stepping
- Excellent frequency stability for long-term measurement confidence
- Remote interface capability for ATE system integration

Typical Applications

- Local oscillator replacement
- CW stimulus generation
- Swept component and subsystem analysis
- Signal simulation

Automated test equipment integration

Compatibility & Integration

Rackmount form factor with remote control interfaces for seamless incorporation into test automation systems. Economical upgrade paths to higher-performance models support evolving measurement requirements.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 10 MHz to 65 GHz
- Synthesized CW with step sweep capability
- Standard 1 kHz resolution; Option 11 for 0.1 Hz
- Banded leveled power per 6XX97 tables
- Optional Option 16 oven time base
- IEEE-488 GPIB remote programming

Applications

- CW LO substitution 10 MHz to 65 GHz
- ATE broadband microwave stimulus
- Receiver sensitivity testing where attenuator options apply
- Compact rack sources for mmWave coax systems to 65 GHz

68097B Characteristics / Specifications

PARAMETER	VALUE
Model	68097B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized CW Generator
Alias	68097B; Anritsu 68097B
Frequency range	10 MHz to 65 GHz
Family	68000B Synthesized CW Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz
Leveled output 0.01 to less than 2 GHz	plus 12 dBm
Leveled output 2 to 20 GHz	plus 10 dBm
Leveled output greater than 20 to 40 GHz	plus 2.5 dBm
Leveled output greater than 40 to 50 GHz	0 dBm
Leveled output greater than 50 to 65 GHz	-2 dBm
Output power resolution	0.01 dB
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option	less than 5×10^{-10} /day
SSB phase noise 68XXXB at 40 GHz 10 kHz offset	-72 dBc/Hz
SSB phase noise 68XXXB at 65 GHz 10 kHz offset	-64 dBc/Hz
Harmonics greater than 40 to 65 GHz family	-25 to -30 dBc class
Nonharmonic spurious typical	-60 dBc
Remote control	IEEE 488 GPIB
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
AC power	90 to 132 or 180 to 264 Vac
Related sweep model	68197B

PARAMETER	VALUE
Related signal generator	68297B
Related sweep signal model	68397B
Related ultra low noise CW	69097A
RF connector class	TypeVfemale for models above 40 GHz
Step attenuator note	not available on highest 6XX97 bands per family table
Minimum leveled power without attenuator typical	-15 to -20 dBm class
Waveguide extensions family	to 110 GHz with external multipliers Notes Power rows from Anritsu 68000B/69000A datasheet 6XX97 tables for 68097B (0.01–65 GHz). Confirm Option 11/16 andVconnector; step attenuator is not listed for highest 6XX97 bands.

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
Nonharmonic spurious typical	-60 dBc
Remote control	IEEE 488 GPIB
Dimensions	about 5.25 in H x 16.875 in W x 23.5 in D
Weight	about 50 lb
AC power	90 to 132 or 180 to 264 Vac
Related sweep model	68197B
Related signal generator	68297B
Related sweep signal model	68397B
Related ultra low noise CW	69097A
RF connector class	Type V female for models above 40 GHz
Step attenuator note	not available on highest 6XX97 bands per family table
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Frequency range	10 MHz to 65 GHz
Family	68000B Synthesized CW Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz
Leveled output 0.01 to less than 2 GHz: plus 12 dBm	
Leveled output 2 to 20 GHz: plus 10 dBm	
Leveled output greater than 20 to 40 GHz: plus 2.5 dBm	

Leveled output greater than 40 to 50 GHz: 0 dBm
Leveled output greater than 50 to 65 GHz: -2 dBm

Specifications

PARAMETER	VALUE
Output power resolution	0.01 dB
Internal time base aging	less than 2 x 10 ⁻⁸ /day
Internal time base aging Option 16	less than 5 x 10 ⁻¹⁰ /day

SSB phase noise 68XXXB at 40 GHz 10 kHz offset: -72 dBc/Hz
SSB phase noise 68XXXB at 65 GHz 10 kHz offset: -64 dBc/Hz
Harmonics greater than 40 to 65 GHz family: -25 to -30 dBc class

Specifications

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Nonharmonic spurious typical	-60 dBc
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Notes
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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.