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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68097C Synthesized CW Generator, 10 MHz to 65 GHz

Anritsu 68097C Synthesized CW Generator 10 MHz to 65 GHz The Anritsu 68097C is a synthesized CW generator covering 10 MHz to 65 GHz in the 68000C family. It provides accurate leveled CW and digital frequency/power sweep for LO duty and ATE in a compact 13.3 cm chassis with GPIB. Modulation is not included on the base CW model. The Anritsu 68097C is a synthesized CW generator covering 10 MHz to 65 GHz in the 68000C family. It provides accurate leveled CW and digital frequency/power sweep for LO duty and ATE in a compact 13.3 cm chassis with GPIB. Modulation is not included on the base CW model.



MODEL

Anritsu 68097C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68097C

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 68097C is a synthesized CW generator delivering precise RF and microwave signals from 10 MHz to 65 GHz. Built for defense, telecommunications, and test environments, it combines broad frequency coverage with ultra-low phase noise, rapid frequency switching, and flexible modulation capabilities. Engineers rely on it for complex signal generation, receiver characterization, and system validation where output purity and frequency accuracy are critical. Technical Specifications Frequency Range: 10 MHz to 65 GHz Output Power: +17 dBm maximum; -125 dBm minimum; -15 dBm typical without attenuator; -120 dBm with attenuator;

–140 dBm with electronic attenuator Output Level Accuracy: ± 0.5 dB typical Phase Noise: Ultra-low SSB (typical –100 dBc at 10 kHz offset from 10 GHz on similar models) Frequency Stability: $< 2 \times 10^{-8}$ /day internal time base aging; $< 5 \times 10^{-10}$ /day with Option 16 Frequency Resolution: 1 kHz minimum step; 0.1 Hz with Option 11 Switching Time: < 5 ms for sweep steps < 100 MHz; typical < 15 ms + 1 ms/GHz or < 40 ms, whichever is less Spurious Signals: Low spurious levels

Key Features

- Seven internal modulation waveforms plus user-defined modulation
- Simultaneous synchronized modulations for complex signal scenarios
- User-downloadable complex modulation capability
- Internal pulse generator for doublet, triplet, or quadruplet pulses
- Swept Delay feature for moving target simulation
- Multiple sweep modes: CW, step, digital frequency/power, alternate, manual, and list sweep
- List sweep with four tables of up to 2000 non-sequential frequency/power sets via GPIB control
- One table of 2000 points stored in non-volatile memory
- Internal high-stability time-base option available

Interfaces & Integration

- GPIB (IEEE-488) remote control interface
- BNC connector, 50 Ω impedance for time base signal
- Rackmount form factor, 13.3 cm height
- Three-wire power cable connection required

Typical Applications

Complex RF/microwave testing, receiver development, radar signal simulation, component characterization, and system validation in defense and telecommunications sectors.

Features & description

From manufacturer datasheet

Features

• Frequency coverage 10 MHz to 65 GHz • Digital frequency sweep and digital power sweep • Optional 0.1 Hz resolution Option 11 • Optional mechanical or electronic step attenuator • Optional high power Option 15 and oven Option 16 • IEEE-488 GPIB remote control

Applications

• Stimulus across 10 MHz to 65 GHz • ATE with fast switching and list mode • Receiver sensitivity testing with optional attenuator • Compact rack microwave source applications

68097C Characteristics / Specifications

PARAMETER	VALUE
Model	68097C
Manufacturer	Anritsu
Instrument Type	Synthesized CW Generator
Alias	68097C; Anritsu 68097C
Frequency range standard	10 MHz to 65 GHz
Frequency extension Option	0.1 Hz to 10 MHz
Family	68000C Series
Leveled output 0.01 to less than 2 GHz	+12 dBm
Leveled output 2 to 20 GHz	+10 dBm
Leveled output greater than 20 to 40 GHz	+2.5 dBm
Leveled output greater than 40 to 50 GHz	0 dBm
Leveled output greater than 50 to 65 GHz	-2 dBm
Leveled with step attenuator lower bands	per 68×97C family tables
Minimum leveled power without attenuator	-15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	-120 dBm typical family
Output power resolution	0.01 dB or 0.001 mV
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 68XXXC 2 to 6 GHz at 10 kHz	-86 dBc/Hz
Harmonics family typical	-50 to -60 dBc by band
Nonharmonic spurious	-60 dBc
Switching time without attenuator change	less than 3 ms typical

PARAMETER	VALUE
Sweep step switching less than 100 MHz	less than 5 ms
Remote control	IEEE 488 GPIB
Dimensions	133 mmHx 429 mmWx 597 mmDWeight: 23 kg maximum
Operating temperature	0 C to 50 C
Related signal model	68197C
Related high performance	68397C
Related ultra low noise	69097B
Modulation on base CW model	not included Notes Specs from Anritsu 68000C/69000B Series datasheet for 68097C (10 MHz to 65 GHz). Confirm Option 11/15/16/22, attenuator type, and RF connector on the unit.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 50 C
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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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Manufacturer	Anritsu
Instrument Type	Synthesized CW Generator
Alias	68097C; Anritsu 68097C
Frequency range standard	10 MHz to 65 GHz
Frequency extension Option 22	0.1 Hz to 10 MHz
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Levelled output 0.01 to less than 2 GHz: +12 dBm	
Levelled output 2 to 20 GHz: +10 dBm	
Levelled output greater than 20 to 40 GHz: +2.5 dBm	
Levelled output greater than 40 to 50 GHz: 0 dBm	
Levelled output greater than 50 to 65 GHz: -2 dBm	
Specifications	

PARAMETER	VALUE
Leveled with step attenuator lower bands	per 68x97C family tables
Minimum leveled power without attenuator	-15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	-120 dBm typical family
Output power resolution	0.01 dB or 0.001 mV
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 68XXXC 2 to 6 GHz at 10 kHz: -86 dBc/Hz

Specifications

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Notes

Specs from Anritsu 68000C/69000B Series datasheet for 68097C (10 MHz to 65 GHz). Confirm Option 11/15/16/22, attenuator type, and RF connector 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.