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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68047C Synthesized CW Generator, 10 MHz to 20 GHz

Anritsu 68047C Synthesized CW Generator 10 MHz to 20 GHz The Anritsu 68047C is a synthesized CW generator covering 10 MHz to 20 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 68047C is a synthesized CW generator covering 10 MHz to 20 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 68047C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68047C

LISTING

<https://aumictechlabs.com/products/68047c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 68047C is a synthesized CW generator delivering stable, precise signals across 10 MHz to 20 GHz for automated test equipment applications. This microprocessor-controlled instrument combines high-resolution phase-lock capability with flexible control via front-panel operation or remote IEEE-488 GPIB commands. Its compact 13.3 cm footprint minimizes rack space while supporting advanced sweep modes, independent CW frequency presets, and programmable output power spanning +13 dBm to -140 dBm with 0.01 dB resolution. Technical

Specifications Frequency Range: 10 MHz to 20 GHz (standard); optional extension to 0.01 Hz lower limit Frequency Resolution: 1 kHz standard; 0.1 Hz with Option 11 Output Power (Leveled): +13 dBm to -15 dBm standard; +13 dBm guaranteed to 20 GHz; -140 dBm with electronic attenuator Output Power Resolution: 0.01 dB (logarithmic) or 0.001 mV (linear) Internal Time Base Stability: $<2 \times 10^{-8}$ /day aging; $<2 \times 10^{-8}$ /°C temperature drift; improves to $<5 \times 10^{-10}$ /day and $<2 \times 10^{-10}$ /°C with Option 16 SSB Phase Noise: Ultra-low Spurious: Ultra-low Switching Time: <5 ms for <100 MHz sweep steps Step Sweep: 1 kHz to full range; 1 to 10,000 steps; 1 ms/step to 99 seconds/step variable timing Key Features Twenty independent presettable CW frequencies (F0–F9, M0–M9) Multiple sweep modes: digital frequency, digital power, phase-locked step, alternate, manual Intuitive menu-driven front panel with optional deletion (Option 17B) for remote-only configurations Optional rear panel RF output (Option 9) Optional mmWave bias output (Option 18) for millimeter-wave source module integration SCPI programmability available (Option 19) IVI standard compliance for Visual Basic, Visual C++, LabVIEW environments Typical Applications Automated test equipment requiring stable, leveled signal sources Component and subsystem characterization from 10 MHz to 20 GHz System integration with VNA platforms (Anritsu 360B compatible with Option 14) Compatibility & Integration IEEE-488 GPIB remote control standard. Optional rack mounting (Option 1), attenuator configurations (Option 2A: 10 dB/step), and high-stability time base (Option 16) available.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 10 MHz to 20 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 20 GHz • ATE with fast switching and list mode • Receiver sensitivity testing with optional attenuator • Compact rack microwave source applications

High power Option 15 2 to 20 GHz: +17 dBm

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 Harmonics family typical: -50 to -60 dBc by band Nonharmonic spurious: -60 dBc Switching time without attenuator change: less than 3 ms typical Sweep step switching less than 100 MHz: less than 5 ms Remote control: IEEE 488 GPIB Dimensions: 133 mmHx 429 mmWx 597 mmD Weight: 23 kg maximum Operating temperature: 0 C to 50 C Related signal model: 68147C Related high performance: 68347C Related ultra low noise: 69047B Modulation on base CW model: not included Notes Specs from Anritsu 68000C/69000B Series datasheet for 68047C (10 MHz to 20 GHz). Confirm Option 11/15/16/22, attenuator type, and RF connector on the unit.

68047C Characteristics / Specifications

PARAMETER	VALUE
Model	68047C
Manufacturer	Anritsu
Instrument Type	Synthesized CW Generator
Alias	68047C; Anritsu 68047C
Frequency range standard	10 MHz to 20 GHz
Frequency extension Option	0.1 Hz to 10 MHz
Family	68000C Series
Leveled output power 0.01 to 20 GHz	+13 dBm
Leveled output with step attenuator 0.01 to 20 GHz	+11 dBm
Leveled output with electronic attenuator 0.01 to 8.4 GHz	+9 dBm
Leveled output with electronic attenuator greater than 8.4 to 20 GHz	+3 dBm
High power Option 15 2 to 20 GHz	+17 dBm
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

PARAMETER	VALUE
Switching time without attenuator change	less than 3 ms typical
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	68147C
Related high performance	68347C
Related ultra low noise	69047B
Modulation on base CW model	not included Notes Specs from Anritsu 68000C/69000B Series datasheet for 68047C (10 MHz to 20 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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Related signal model	68147C
Related high performance	68347C
Related ultra low noise	69047B
Modulation on base CW model	not included Notes Specs from Anritsu 68000C/69000B Series datasheet for 68047C (10 MHz to 20 GHz). Confirm Option 11/15/16/22, attenuator type, and RF connector 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	
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Nonharmonic spurious	-60 dBc
Switching time without attenuator change	less than 3 ms typical
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Remote control	IEEE 488 GPIB
Dimensions	133 mm H x 429 mm W x 597 mm D
Weight	23 kg maximum
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Related signal model	68147C
Related high performance	68347C
Related ultra low noise	69047B
Modulation on base CW model	not included
Specifications	
PARAMETER	VALUE
Model	68047C
Manufacturer	Anritsu
Instrument Type	Synthesized CW Generator
Alias	68047C; Anritsu 68047C
Frequency range standard	10 MHz to 20 GHz
Frequency extension Option 22	0.1 Hz to 10 MHz
Family	68000C Series
Leveled output power 0.01 to 20 GHz	+13 dBm
Leveled output with step attenuator 0.01 to 20 GHz: +11 dBm	
Leveled output with electronic attenuator 0.01 to 8.4 GHz: +9 dBm	
Leveled output with electronic attenuator greater than 8.4 to 20 GHz: +3 dBm	
High power Option 15 2 to 20 GHz: +17 dBm	
Specifications	

PARAMETER	VALUE
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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Harmonics family typical	-50 to -60 dBc by band
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Operating temperature	0 C to 50 C
Related signal model	68147C
Related high performance	68347C
Related ultra low noise	69047B
Modulation on base CW model	not included

Notes

Specs from Anritsu 68000C/69000B Series datasheet for 68047C (10 MHz to 20 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.