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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68017C Synthesized CW Generator, 0.01 â€" 8.4 GHz

Anritsu 68017C Synthesized CW Generator 10 MHz to 8.4 GHz The Anritsu 68017C is a synthesized CW generator covering 10 MHz to 8.4 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 control. Modulation is not included on the base CW model; upgrades within the 68C/69B family add sweep, modulation, or broader coverage. The Anritsu 68017C is a synthesized CW generator covering 10 MHz to 8.4 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 control. Modulation is not included on the base CW model; upgrades within the 68C/69B family add sweep, modulation, or broader coverage.



MODEL Anritsu 68017C	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 68017C	LISTING https://aumictechlabs.com/products/68017c-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 68017C is a synthesized CW generator delivering precision RF signal generation across 0.01 to 8.4 GHz. Built for RF circuit testing, wireless development, and production verification, it combines ultra-low phase noise, flexible modulation, and advanced sweep capabilities with GPIB remote control. Engineers rely on it for applications demanding signal purity, frequency agility, and stable leveled output across demanding test environments. Technical

Specifications Frequency Range: 0.01 to 8.4 GHz (10 MHz to 8.4 GHz) Output Power: Maximum: +17 dBm Minimum: -125 dBm Guaranteed leveled power to 20 GHz: +17 dBm Signal Purity: SSB phase noise: -107 dBc at 10 kHz offset from 10 GHz Non-harmonic spurious: -100 dBc Frequency Resolution: 0.1 Hz (Option 11); standard step size 1 kHz across full range Switching Time: <5 ms for <100 MHz sweep steps

Key Features Modulation & Waveforms: Internal AM, FM, phase, and pulse modulation Seven internal modulating waveforms including Gaussian noise User-downloadable arbitrary modulation waveforms Doublet, triplet, and quadruplet pulse generation for RADAR blind spot testing Swept delay for moving target simulation Simultaneous synchronized modulations across entire frequency range Sweep Modes: CW or step sweep operation Step sweep: 1 ms to 99 seconds per step Fixed rate sweep: 20 ms to 99 seconds per step Manual, alternate, logarithmic, and digital frequency/power sweep modes Control & Integration: GPIB (IEEE 488) with optional SCPI programmability (Option 19) TTL end-of-sweep input/output signals External or internal pulse modulation parameter control

Optional Enhancements Option 15A adds high-power RF output (2–20 GHz range). Option 16 provides ovenized 10 MHz reference with $<5 \times 10^{-10}$ /day stability. Option 17B removes front panel for remote operation.

Typical Applications RF subsystem characterization, receiver sensitivity testing, transmitter verification, component S-parameter measurements, and radar signal simulation.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 10 MHz to 8.4 GHz (Option 22 to 0.1 Hz)
- Digital frequency sweep and digital power sweep
- Ultra-low SSB phase noise 68XXXC tables
- Optional 0.1 Hz resolution Option 11
- Optional mechanical or electronic step attenuator
- Optional high-power Option 15 and oven Option 16

Applications

- Local oscillator substitution 10 MHz to 8.4 GHz
- ATE CW stimulus with fast switching and list mode
- Receiver sensitivity testing with optional attenuator
- Compact rack sources for RF and low-microwave bands

High power Option 15 family: +17 dBm on applicable bands

Minimum leveled power without attenuator: -15 dBm (-20 dBm typical) Minimum leveled power with attenuator: -120 dBm Minimum leveled power with electronic attenuator: -140 dBm 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 10 MHz to 2 GHz at 10 kHz: -86 dBc/Hz SSB phase noise 68XXXC 2 to 6 GHz at 10 kHz: -86 dBc/Hz SSB phase noise 68XXXC greater than 6 to 8.4 GHz at 10 kHz: -83 dBc/Hz Harmonics: -60 dBc typical family 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 Modulation on base CW model: not included Related signal model: 68117C Related high performance signal: 68317C Related ultra low noise CW: 69017B Notes Specs from Anritsu 68000C/69000B Series datasheet for 68×17C / 68017C (0.01–8.4 GHz). Confirm Option 11/15/16/22 and attenuator type on the unit.

68017C Characteristics / Specifications

PARAMETER	VALUE
Model	68017C
Manufacturer	Anritsu
Instrument Type	Synthesized CW Generator
Alias	68017C; Anritsu 68017C
Frequency range standard	10 MHz to 8.4 GHz
Frequency extension Option	0.1 Hz to 10 MHz
Family	68000C Series
Leveled output power 0.01 to 8.4 GHz	+13 dBm
Leveled output with step attenuator 0.01 to 8.4 GHz	+11 dBm
Leveled output with electronic attenuator 0.01 to 8.4 GHz	+9 dBm
High power Option 15 family	+17 dBm on applicable bands
Minimum leveled power without attenuator	-15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	-120 dBm
Minimum leveled power with electronic attenuator	-140 dBm
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 10 MHz to 2 GHz at 10 kHz	-86 dBc/Hz
SSB phase noise 68XXXC 2 to 6 GHz at 10 kHz	-86 dBc/Hz

PARAMETER	VALUE
SSB phase noise 68XXXC greater than 6 to 8.4 GHz at 10 kHz	-83 dBc/Hz
Harmonics	-60 dBc typical family
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 mmDWeight: 23 kg maximum
Modulation on base CW model	not included
Related signal model	68117C
Related high performance signal	68317C
Related ultra low noise CW	69017B Notes Specs from Anritsu 68000C/69000B Series datasheet for 68×17C / 68017C (0.01–8.4 GHz). Confirm Option 11/15/16/22 and attenuator type 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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SSB phase noise 68XXxC 10 MHz to 2 GHz at 10 kHz: -86 dBc/Hz

SSB phase noise 68XXxC 2 to 6 GHz at 10 kHz: -86 dBc/Hz

SSB phase noise 68XXxC greater than 6 to 8.4 GHz at 10 kHz: -83 dBc/Hz

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Related ultra low noise CW	69017B

Notes

Specs from Anritsu 68000C/69000B Series datasheet for 68x17C / 68017C (0.01-8.4 GHz). Confirm Option 11/15/16/22 and attenuator type 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.