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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68037C Synthesized CW Generator, 2 GHz

Anritsu 68037C Synthesized CW Generator 2 GHz to 20 GHz The Anritsu 68037C is a synthesized CW generator covering 2 GHz 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 68037C is a synthesized CW generator covering 2 GHz 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 68037C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68037C

LISTING

<https://aumictechlabs.com/products/68037c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 68037C Synthesized CW Generator delivers continuous wave signals across 2–20 GHz with ultra-low phase noise and precise output power leveling. Built for RF and microwave validation, R&D, and automated test environments, it combines configurable architecture with straightforward local oscillator replacement capability or advanced signal generation for demanding applications. Technical Specifications Frequency and Output Frequency range: 2 GHz to 20 GHz Output power: +17 dBm maximum, –125 dBm minimum Output accuracy: Leveled power to +17 dBm up to 20 GHz Frequency resolution: 1 kHz standard; 0.1 Hz optional (Option 11) Signal

Purity Phase noise: -107 dBc at 10 kHz offset from 10 GHz Spurious signals: Ultra-low levels
Modulation and Sweep Modulation: Internal AM, FM, phase modulation (ϕ M), and pulse modulation; user-downloaded arbitrary modulation supported Internal pulse generator: Doublet, triplet, or quadruplet pulses for RADAR blind spot testing Sweep modes: CW, step sweep, digital frequency sweep, digital power sweep, alternate sweep, and manual sweep Step sweep dwell time: 1 ms/step to 99 seconds/step (starts after phase lock) Switching time: <5 ms for <100 MHz steps; <15 ms + 1 ms/GHz for larger steps or <40 ms maximum Control and Integration List mode: Internal execution reduces ATE controller overhead Programmability: Optional SCPI compatibility with IVICOM and LabVIEW drivers Form factor: Rackmount

Key Features Exceptional phase noise performance at -107 dBc (10 kHz offset) Fast frequency switching <5 ms for narrow bandwidths Flexible dwell times from 1 ms to 99 seconds per step Pulse modulation with multi-pulse generation for radar applications List mode operation for autonomous signal sequencing

Typical Applications Component validation, RF receiver testing, local oscillator replacement, automated test equipment integration, and radar system characterization.

Compatibility & Integration Optional SCPI commands enable direct ATE integration. Available drivers include IVICOM and National Instruments LabVIEW. Option 2A adds 10 dB/step attenuation; Option 11 enables 0.1 Hz resolution.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 2 GHz 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 2 GHz 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: 68137C Related high performance: 68337C Related ultra low noise: 69037B Modulation on base CW model: not included Notes Specs from Anritsu 68000C/69000B Series datasheet for 68037C (2 GHz to 20 GHz). Confirm Option 11/15/16/22, attenuator type, and RF connector on the unit.

68037C Characteristics / Specifications

PARAMETER	VALUE
Model	68037C
Manufacturer	Anritsu
Instrument Type	Synthesized CW Generator
Alias	68037C; Anritsu 68037C
Frequency range standard	2 GHz to 20 GHz
Frequency extension Option	not applicable on this band start
Family	68000C Series
Leveled output power 2 to 8.4 GHz	+13 dBm
Leveled output power greater than 8.4 to 20 GHz	+13 dBm
Leveled output with step attenuator 2 to 20 GHz	+11 dBm
Leveled output with electronic attenuator 2 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

PARAMETER	VALUE
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
Operating temperature	0 C to 50 C
Related signal model	68137C
Related high performance	68337C
Related ultra low noise	69037B
Modulation on base CW model	not included Notes Specs from Anritsu 68000C/69000B Series datasheet for 68037C (2 GHz 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	68137C
Related high performance	68337C
Related ultra low noise	69037B
Modulation on base CW model	not included Notes Specs from Anritsu 68000C/69000B Series datasheet for 68037C (2 GHz 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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PARAMETER	VALUE
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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 mm H x 429 mm W x 597 mm D
Weight	23 kg maximum
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Related signal model	68137C
Related high performance	68337C
Related ultra low noise	69037B
Modulation on base CW model	not included
Specifications	
PARAMETER	VALUE
Model	68037C
Manufacturer	Anritsu
Instrument Type	Synthesized CW Generator
Alias	68037C; Anritsu 68037C
Frequency range standard	2 GHz to 20 GHz
Frequency extension Option 22	not applicable on this band start
Family	68000C Series
Leveled output power 2 to 8.4 GHz	+13 dBm
Leveled output power greater than 8.4 to 20 GHz: +13 dBm Leveled output with step attenuator 2 to 20 GHz: +11 dBm Leveled output with electronic attenuator 2 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

PARAMETER	VALUE
Harmonics family typical	-50 to -60 dBc by band
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Dimensions	133 mmHx 429 mmWx 597 mmDWeight: 23 kg maximum
Operating temperature	0 C to 50 C
Related signal model	68137C
Related high performance	68337C
Related ultra low noise	69037B
Modulation on base CW model	not included

Notes

Specs from Anritsu 68000C/69000B Series datasheet for 68037C (2 GHz 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.