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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68077C Synthesized Signal Generator 50.00GHz

Anritsu 68077C Synthesized CW Generator 10 MHz to 50 GHz The Anritsu 68077C is a synthesized CW generator covering 10 MHz to 50 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 68077C is a synthesized CW generator covering 10 MHz to 50 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 68077C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68077C

LISTING

<https://aumictechlabs.com/products/68077c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68077C is a synthesized signal generator delivering precise CW (Continuous Wave) signals across 10 MHz to 50 GHz. Built on the configurable 68000C series platform, it serves R&D and production environments requiring stable, low-noise signal generation with rapid frequency switching. The instrument combines fast 5 ms switching time for sub-100 MHz sweep steps with leveled output power spanning -120 dBm to +12 dBm in 0.01 dB increments, making it suitable for local oscillator applications and complex signal generation tasks demanding phase coherence and spectral purity. Technical Specifications Frequency Range: 10 MHz to 50 GHz Frequency

Resolution: 100.0 mHz Output Power: +12 dBm to -15 dBm typical; leveled output from -120 dBm to +12 dBm in 0.01 dB steps Switching Time: 5 ms for <100 MHz sweep steps; variable 1 ms/step to 99 seconds/step in step sweep mode Signal Type: Synthesized CW generator

Key Features

- Ultra-low SSB phase noise characteristic of the 68C/69B series
- Ultra-low spurious signals
- Digital frequency and power sweep capabilities
- Step sweep with 1 to 10,000 programmable steps
- List mode supporting up to 4 tables with 2000 non-sequential frequency/power sets via GPIB or front panel control
- Manual stepped sweep with phase-locked frequency adjustment between limits
- Linear and logarithmic sweep selection
- Non-volatile memory storage for list sweep tables

Applications Ideal for high-frequency measurement systems, RF/microwave component testing, local oscillator subsystems, and broadband frequency synthesis requiring phase stability and minimal spectral artifacts.

Compatibility & Integration GPIB and front panel control interfaces enable integration into automated test environments. Membership in the 68000C configurable platform series allows system expansion through modular architecture.

Features & description

From manufacturer datasheet

Features

• Frequency coverage 10 MHz to 50 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 50 GHz • ATE with fast switching and list mode • Receiver sensitivity testing with optional attenuator • Compact rack microwave source applications

68077C Characteristics / Specifications

PARAMETER	VALUE
Model	68077C
Manufacturer	Anritsu
Instrument Type	Synthesized CW Generator
Alias	68077C; Anritsu 68077C
Frequency range standard	10 MHz to 50 GHz
Frequency extension Option	0.1 Hz to 10 MHz
Family	68000C Series
Leveled power 0.01 to less than 2 GHz	+12 dBm
Leveled power 2 to 20 GHz	+10 dBm
Leveled power greater than 20 to 40 GHz	+2.5 dBm
Leveled power greater than 40 to 50 GHz	+2.0 dBm
Leveled with step attenuator 0.01 to less than 2 GHz	+10 dBm
Leveled with step attenuator 2 to 20 GHz	+8.5 dBm
Leveled with step attenuator greater than 20 to 40 GHz	0 dBm
Leveled with step attenuator greater than 40 to 50 GHz	-1.5 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

PARAMETER	VALUE
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 mmDWeight: 23 kg maximum
Operating temperature	0 C to 50 C
Related signal model	68177C
Related high performance	68377C
Related ultra low noise	69077B
Modulation on base CW model	not included Notes Specs from Anritsu 68000C/69000B Series datasheet for 68077C (10 MHz to 50 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	68077C; Anritsu 68077C
Frequency range standard	10 MHz to 50 GHz
Frequency extension Option 22	0.1 Hz to 10 MHz
Family	68000C Series
Levelled power 0.01 to less than 2 GHz: +12 dBm	
Levelled power 2 to 20 GHz: +10 dBm	
Levelled power greater than 20 to 40 GHz: +2.5 dBm	
Levelled power greater than 40 to 50 GHz: +2.0 dBm	
Levelled with step attenuator 0.01 to less than 2 GHz: +10 dBm	
Levelled with step attenuator 2 to 20 GHz: +8.5 dBm	
Levelled with step attenuator greater than 20 to 40 GHz: 0 dBm	
Levelled with step attenuator greater than 40 to 50 GHz: -1.5 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

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Notes

Specs from Anritsu 68000C/69000B Series datasheet for 68077C (10 MHz to 50 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.