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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68077B Synthesized CW Generator (10 MHz to 50 GHz)

Anritsu 68077B Synthesized CW Generator 10 MHz to 50 GHz The Anritsu 68077B is a synthesized CW generator covering 10 MHz to 50 GHz in the 68000B family. It provides phase-locked CW and step sweep with banded leveled power for LO replacement and ATE through V-connector millimeter-wave coax bands. The Anritsu 68077B is a synthesized CW generator covering 10 MHz to 50 GHz in the 68000B family. It provides phase-locked CW and step sweep with banded leveled power for LO replacement and ATE through V-connector millimeter-wave coax bands.



MODEL

Anritsu 68077B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68077B

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 68077B is a synthesized CW generator delivering wideband RF and microwave stimulus from 10 MHz to 50 GHz. Built for local oscillator replacement, CW stimulus, and swept measurements in automated test equipment environments, it combines fast frequency agility with ultra-low phase noise and flexible modulation. The instrument executes phase-locked step sweeps across up to 10,000 steps with switching times under 15 ms plus 1 ms per GHz, or under 5 ms for steps below 100 MHz. Programmable frequency agility stores up to 1,000 non-sequential

frequencies for rapid addressed access. Internal modulation includes AM, FM, phase, and pulse; external FM (locked or unlocked) and AM (log or linear) are also supported.

Technical Specifications

Frequency Range: 10 MHz to 50 GHz
Frequency Resolution: 100 mHz (0.1 Hz optional)
Output Power: +12 dBm maximum; +17 dBm guaranteed leveled to 20 GHz; -120 dBm with attenuator; -140 dBm with electronic attenuator
SSB Phase Noise: -100 dBc at 10 kHz offset from 10 GHz
Step Sweep: Up to 10,000 steps; 1 kHz minimum step size
Dwell Time: 1 ms to 99 seconds per step
Switching Time: <15 ms + 1 ms/GHz or <40 ms maximum; <5 ms for steps <100 MHz
Frequency Agility: 1,000 stored non-sequential frequencies
Physical Footprint: 13.3 cm compact package

Key Features

Dual sweep modes: CW and step sweep with analog or digital control
Alternate sweep mode for two ranges with independent power levels
Modulation: Internal AM, FM, phase, pulse; external FM and AM with multiple modes
Low spurious signal performance
Menu-driven front panel control
SCPI programmability available

Typical Applications

Local oscillator replacement in receiver and transceiver testing
CW stimulus for component and subsystem characterization
Frequency and power sweep measurements in ATE
Phase-locked frequency agility for rapid multi-point stimulus

Compatibility & Integration

Free application drivers include IVICOM and National Instruments LabVIEW support, enabling direct integration into automated test systems and reducing code development time.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 10 MHz to 50 GHz • Synthesized CW with step sweep capability • Standard 1 kHz resolution; Option 11 for 0.1 Hz • Banded leveled power per 6XX77 tables • Optional Option 15 high power and Option 16 oven • IEEE-488 GPIB remote programming

Applications

- CW LO substitution 10 MHz to 50 GHz • ATE broadband microwave stimulus • Receiver sensitivity testing with optional attenuator • Compact rack sources for mmWave coax systems

68077B Characteristics / Specifications

PARAMETER	VALUE
Model	68077B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized CW Generator
Alias	68077B; Anritsu 68077B
Frequency range	10 MHz to 50 GHz
Family	68000B Synthesized CW Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz
Leveled output 0.01 to less than 2 GHz	plus 12 dBm
Leveled output 2 to 20 GHz	plus 10 dBm
Leveled output greater than 20 to 40 GHz	plus 2.5 dBm
Leveled output greater than 40 to 50 GHz	plus 2.5 dBm
Leveled with step attenuator 0.01 to less than 2 GHz	plus 10 dBm
Leveled with step attenuator 2 to 20 GHz	plus 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 dBm
Output power resolution	0.01 dB
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option	less than 5×10^{-10} /day
SSB phase noise 68XXXB at 40 GHz 10 kHz offset	-72 dBc/Hz
SSB phase noise 68XXXB at 50 GHz 10 kHz offset	-66 dBc/Hz
Harmonics family typical	-50 to -60 dBc by band

PARAMETER	VALUE
Nonharmonic spurious typical	-60 dBc
Remote control	IEEE 488 GPIB
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
AC power	90 to 132 or 180 to 264 Vac
Related sweep model	68177B
Related signal generator	68277B
Related sweep signal model	68377B
Related ultra low noise CW	69077A
RF connector class	TypeVfemale for models above 40 GHz Notes Power rows from Anritsu 68000B/69000A datasheet 6XX77 tables for 68077B (0.01–50 GHz). Confirm Option 15/16, attenuator, andVconnector 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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Levelled with step attenuator greater than 40 to 50 GHz: -1 dBm	

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Internal time base aging Option 16	less than 5×10^{-10} /day

SSB phase noise 68XXXB at 40 GHz 10 kHz offset: -72 dBc/Hz

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Power rows from Anritsu 68000B/69000A datasheet 6XX77 tables for 68077B (0.01–50 GHz). Confirm Option 15/16, attenuator, andVconnector 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 ·
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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.