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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68167C Synthesized Signal Generator, 10 MHz to 40 GHz

Anritsu 68167C Synthesized Signal Generator 10 MHz to 40 GHz The Anritsu 68167C is a synthesized signal generator covering 10 MHz to 40 GHz in the 68100C family. It provides analog sweep, external modulation, digital frequency/power sweep, and GPIB control for network-analysis sources and ATE. The Anritsu 68167C is a synthesized signal generator covering 10 MHz to 40 GHz in the 68100C family. It provides analog sweep, external modulation, digital frequency/power sweep, and GPIB control for network-analysis sources and ATE.



MODEL

Anritsu 68167C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68167C

LISTING

<https://aumictechlabs.com/products/68167c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 68167C is a synthesized signal generator delivering phase-locked RF signals from 10 MHz to 40 GHz for automated test equipment and component characterization. It combines ultra-low phase noise, accurate power leveling to -120 dBm, and fast frequency switching in a compact single-channel package. The instrument supports multiple sweep modes, analog and digital modulation, and list-based frequency/power sequencing - making it suited for broadband component testing, wireless system validation, and mixer characterization. Technical Specifications Frequency Coverage: 10 MHz to 40 GHz with 100.0 mHz resolution. Optional 0.1 Hz

resolution available. Output Power: +13 dBm to -15 dBm typical; +17 dBm guaranteed leveled power to 20 GHz. Power accuracy reaches -120 dBm minimum with 0.01 dB step resolution. Phase Noise: -107 dBc/Hz SSB at 10 kHz offset from 10 GHz carrier. Spurious Performance: <-60 dBc specified. Switching Speed: <5 ms for frequency steps under 100 MHz; <15 ms + 1 ms/GHz or <40 ms maximum for step sweep. Sweep Modes: Step sweep (1 ms to 99 seconds per step), fixed-rate sweep (20 ms to 99 seconds per step), list sweep (up to 4 tables × 2000 frequency/power pairs), logarithmic sweep, and analog sweep. Manual mode supports phase-locked frequency stepping between limits. Modulation: Internal AM, FM, phase, and pulse modulation. User-downloadable arbitrary waveforms supported.

Key Features

- Dual-table master/slave synchronization via AUX I/O and SERIAL I/O for coherent two-channel measurements
- GPIO (IEEE-488) control with optional SCPI programmability
- Free application drivers: IVI-COM and LabVIEW compatible
- Compact 13.3 cm height minimizes rack footprint
- Frequency sweep width accuracy: ± 30 MHz or ± 2 MHz, whichever is lesser, at sweep rates ≤ 50 MHz/ms

Typical Applications

- RF and microwave component characterization
- Wireless transceiver testing
- Mixer and frequency converter validation

Compatibility & Integration

GPIO bus control with SCPI option. IVI-COM and National Instruments LabVIEW drivers available at no cost.

Features & description

From manufacturer datasheet

Features

• Frequency coverage 10 MHz to 40 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 40 GHz • ATE with fast switching and list mode • Receiver sensitivity testing with optional attenuator • Compact rack microwave source applications

68167C Characteristics / Specifications

PARAMETER	VALUE
Model	68167C
Manufacturer	Anritsu
Instrument Type	Synthesized Signal Generator
Alias	68167C; Anritsu 68167C
Frequency range standard	10 MHz to 40 GHz
Frequency extension Option	0.1 Hz to 10 MHz
Family	68000C Series
Leveled output 0.01 to less than 2 GHz	+12 dBm
Leveled output 2 to 20 GHz	+10 dBm
Leveled output greater than 20 to 40 GHz	+2.5 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
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 CW model	68067C
Related high performance	68367C
Related ultra low noise	69167B Notes Specs from Anritsu 68000C/69000B Series datasheet for 68167C (10 MHz to 40 GHz). Confirm Option 11/15/16/22, attenuator type, and RF connector on the unit.

General Specifications & Supplementary Characteristics

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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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Frequency extension Option 22	0.1 Hz to 10 MHz
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Leveled output 0.01 to less than 2 GHz: +12 dBm
Leveled output 2 to 20 GHz: +10 dBm
Leveled output greater than 20 to 40 GHz: +2.5 dBm
Leveled with step attenuator 0.01 to less than 2 GHz: +10 dBm
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Leveled with step attenuator greater than 20 to 40 GHz: 0 dBm

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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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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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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.