

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ANRITSU

Anritsu 68187C Synthesized Signal Generator, 10 MHz to 60 GHz

Anritsu 68187C Synthesized Signal Generator 10 MHz to 60 GHz The Anritsu 68187C is a synthesized signal generator covering 10 MHz to 60 GHz in the 68100C family. It provides analog sweep, external modulation, digital frequency/power sweep, and GPIB control for network-analysis sources and ATE through V-conector millimeter-wave coax bands. The Anritsu 68187C is a synthesized signal generator covering 10 MHz to 60 GHz in the 68100C family. It provides analog sweep, external modulation, digital frequency/power sweep, and GPIB control for network-analysis sources and ATE through V-conector millimeter-wave coax bands.



MODEL

Anritsu 68187C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68187C

LISTING

<https://aumictechlabs.com/products/68187c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68187C is a synthesized signal generator delivering precise RF and microwave signals across 10 MHz to 60 GHz with excellent spectral purity and flexible modulation. It serves R&D, automated test equipment, and advanced wireless system validation - including communications components, electronic warfare, and radar testing. Technical Specifications Frequency Range: 10 MHz to 60 GHz standard; optional extension to 0.1 Hz available. Output Power: Guaranteed leveled power to +17 dBm up to 20 GHz. Typical output without attenuator: +15 to +20 dBm. With

attenuator: -120 dBm. With electronic attenuator: -140 dBm. Minimum output: -125 dBm. Resolution: 0.01 dB steps. Frequency Resolution: 100.0 mHz standard; optional 0.1 Hz resolution. Phase Noise: Ultra-low SSB phase noise with spurious levels below -60 dBc. Switching Time: Less than 5 ms for steps below 100 MHz; typical maximum 15 ms + 1 ms/GHz step size, or less than 40 ms. Frequency Accuracy: Equivalent to internal or external 10 MHz time base. Key Features Modulation: AM, FM, external FM (locked/unlocked), external AM (log/linear). Seven internal modulation waveforms including Gaussian noise; optional user-defined waveforms. Advanced internal pulse modulation for single and multiple pulses; internal pulse generator for moving target, radar, and fading simulation. Sweep Modes: Digital frequency, digital power, analog, step, manual, list, and alternate sweep (alternates between two ranges with different power levels). Step sweep time variable from 1 ms/step to 99 seconds/step. Fixed rate step sweep: 20 ms/step to 99 seconds/step. CW Mode: Twenty independent presettable frequencies (F0-F9, M0-M9). Master/Slave: Synchronous sweeping of two synthesizers for mixer and frequency converter measurements. Compatibility & Integration Optional SCPI programmability with free application drivers: IVI-COM and National Instruments LabVIEW. GPIB control standard. Form Factor: Compact 13.3 cm package minimizes rack space.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 10 MHz to 60 GHz
- Analog sweep plus digital frequency and power sweep
- External AM and FM modulation
- Less than 5 ms switching for less than 100 MHz steps
- Optional attenuator where available by band
- IEEE-488 GPIB remote control

Applications

- Swept and CW microwave stimulus 10 MHz to 60 GHz
- External AM/FM modulated LO and receiver testing
- ATE with fast switching and list mode
- Network analyzer source substitution in mmWave bands

68187C Characteristics / Specifications

PARAMETER	VALUE
Model	68187C
Manufacturer	Anritsu
Instrument Type	Synthesized Signal Generator
Alias	68187C; Anritsu 68187C
Frequency range standard	10 MHz to 60 GHz
Frequency extension Option	0.1 Hz to 10 MHz
Family	68100C 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 output greater than 40 to 50 GHz	+2.0 dBm
Leveled output greater than 50 to 60 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
Leveled with step attenuator greater than 50 to 60 GHz	-2.0 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

PARAMETER	VALUE
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 at 50 GHz 10 kHz	-66 dBc/Hz
Harmonics family typical	-50 to -60 dBc by band
Nonharmonic spurious	-60 dBc
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
Related CW model	68087C
Related high performance signal	68387C
Related ultra low noise	69187B Notes Power rows from Anritsu 68000C/69000B Series datasheet for 68×87C / 68187C (0.01–60 GHz). Confirm Option 11/16/22, attenuator availability above 40 GHz, and Vconnector 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

Specifications

PARAMETER	VALUE
Harmonics family typical	-50 to -60 dBc by band
Nonharmonic spurious	-60 dBc
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
Related CW model	68087C
Related high performance signal	68387C
Related ultra low noise	69187B

Specifications

PARAMETER	VALUE
Model	68187C
Manufacturer	Anritsu
Instrument Type	Synthesized Signal Generator
Alias	68187C; Anritsu 68187C
Frequency range standard	10 MHz to 60 GHz
Frequency extension Option 22	0.1 Hz to 10 MHz
Family	68100C 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 output greater than 40 to 50 GHz: +2.0 dBm
Leveled output greater than 50 to 60 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
Leveled with step attenuator greater than 50 to 60 GHz: -2.0 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 at 50 GHz 10 kHz: -66 dBc/Hz

Specifications

PARAMETER	VALUE
Harmonics family typical	-50 to -60 dBc by band
Nonharmonic spurious	-60 dBc
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
Related CW model	68087C
Related high performance signal	68387C
Related ultra low noise	69187B

Notes

Power rows from Anritsu 68000C/69000B Series datasheet for 68x87C / 68187C (0.01-60 GHz). Confirm Option 11/16/22, attenuator availability above 40 GHz, and Vconnector 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

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
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.