

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ANRITSU

Anritsu 68387B Synthesized Sweep/Signal Generator, 0.01 GHz to 60 GHz

Anritsu 68387B Synthesized Sweep/Signal Generator 10 MHz to 60 GHz The Anritsu 68387B is a synthesized sweep/signal generator covering 0.01 GHz to 60 GHz in the earlier 68000B synthesizer family. It combines CW, analog/step sweep, and comprehensive modulation at moderate cost relative to the ultra-low-noise 69A/69B lines, for broadband signal simulation and swept measurements. The Anritsu 68387B is a synthesized sweep/signal generator covering 0.01 GHz to 60 GHz in the earlier 68000B synthesizer family. It combines CW, analog/step sweep, and comprehensive modulation at moderate cost relative to the ultra-low-noise 69A/69B lines, for broadband signal simulation and swept measurements.



MODEL

Anritsu 68387B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68387B

LISTING

<https://aumictechlabs.com/products/68387b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68387B is a synthesized sweep/signal generator spanning 0.01 GHz to 60 GHz, delivering phase-coherent RF and microwave signals for demanding laboratory and production environments. Built for high stability and repeatability, it combines fast sweep capability with precise frequency control and excellent phase noise performance. The instrument supports analog, step, manual, and list sweep modes alongside multiple modulation types AM, FM, phase,

pulse, and scan - making it suitable for component characterization, system validation, and local oscillator replacement across R&D and ATE applications.

Technical Specifications

Frequency Range: 0.01 GHz to 60 GHz

Output Power: -120 dBm to +12 dBm typical; -125 dBm minimum; +17 dBm maximum leveled power to 20 GHz; 0.01 dB power steps; -20 dBm to +12 dBm standard range; -120 dBm achievable with attenuator

Frequency Resolution: 100.0 MHz standard; optional 0.1 Hz resolution

Phase Noise: Ultra-low SSB characteristics; -100 dBc at 10 kHz offset from 10 GHz

Sweep Specifications: Analog, step, manual, and list sweep modes; <5 ms switching time; <100 MHz sweep steps; fast sweep speeds

Modulation: AM, FM, pulse, scan, and phase modulation; user-defined modulation; internal generators with 7 waveforms including Gaussian noise; advanced internal pulse modulation for single and multiple pulses

Key Features

- Compact form factor minimizes rack space
- Wide dynamic range and output level accuracy
- IEEE-488 remote control capability

Typical Applications

- RF and microwave component analysis
- Signal simulation and stimulus-response testing
- Local oscillator replacement
- Production line RF testing

Compatibility & Integration

GPIB interface enables seamless integration with automated test equipment (ATE) systems and remote operation via IEEE-488 protocol.

Features & description

From manufacturer datasheet

Features

- Coverage 0.01 to 60 GHz • Analog and phase-locked step sweep • Internal/external AM, FM, pulse; optional Φ M • 68B family excellent phase noise at moderate cost • List sweep with large frequency/power tables • Optional 0.1 Hz resolution and high-stability time base • GPIB remote control
- Upgradeable 68B platform toward later 68C/69B

Applications

- Broadband swept network analysis to 60 GHz • AM/FM/pulse modulated signal simulation • ATE microwave/mmWave stimulus • Radar and EW receiver testing • CW LO use when modulation and sweep are idle

68387B Characteristics / Specifications

PARAMETER	VALUE
Model	68387B
Manufacturer	Anritsu
Instrument Type	Synthesized Sweep/Signal Generator
Alias	68387B; Anritsu 68387B
Frequency range	0.01 GHz to 60 GHz
Family	68000B synthesizers
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 power greater than 50 to 60 GHz	+2.0 dBm
Leveled power with step attenuator 0.01 to less than 2 GHz	+10 dBm
Leveled power with step attenuator 2 to 20 GHz	+8.5 dBm
Leveled power with step attenuator greater than 20 to 40 GHz	0 dBm
Leveled power with step attenuator greater than 40 to 50 GHz	-1.5 dBm
Leveled power with step attenuator greater than 50 to 60 GHz	-2.0 dBm
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz
Frequency resolution Option	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option	less than 5×10^{-10} /day

PARAMETER	VALUE
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep steps	1 to 10000
List sweep points	up to 2000 per table
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -115 dBm class
SSB phase noise	68B family excellent moderate cost class
Remote control	GPIB
Dimensions	133 mmHx 429 mmWx 597 mmD Mass: less than or equal to 23 kg
RF output connector	TypeVfemale
Related CW 69A	69087A
Related ultra low noise sweep signal	69387A
Related Crevision	68387C Notes Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 68xxxB performance tables for 68x87B / 68387B (0.01–60 GHz). Confirm options and leveled power 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
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz
Frequency resolution Option 11	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2 x 10 ⁻⁸ /day
Internal time base aging Option 16	less than 5 x 10 ⁻¹⁰ /day
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep steps	1 to 10000
List sweep points	up to 2000 per table
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -115 dBm class
SSB phase noise	68B family excellent moderate cost class
Remote control	GPIB
Dimensions	133 mm H x 429 mm W x 597 mm D
Mass	less than or equal to 23 kg
RF output connector	Type V female
Related CW 69A	69087A
Related ultra low noise sweep signal	69387A
Related C revision	68387C
Specifications	
PARAMETER	VALUE
Model	68387B
Manufacturer	Anritsu
Instrument Type	Synthesized Sweep/Signal Generator

PARAMETER	VALUE
Alias	68387B; Anritsu 68387B
Frequency range	0.01 GHz to 60 GHz
Family	68000B synthesizers

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 power greater than 50 to 60 GHz: +2.0 dBm
 Leveled power with step attenuator 0.01 to less than 2 GHz: +10 dBm
 Leveled power with step attenuator 2 to 20 GHz: +8.5 dBm
 Leveled power with step attenuator greater than 20 to 40 GHz: 0 dBm
 Leveled power with step attenuator greater than 40 to 50 GHz: -1.5 dBm
 Leveled power with step attenuator greater than 50 to 60 GHz: -2.0 dBm

Specifications

PARAMETER	VALUE
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz
Frequency resolution Option 11	0.1 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option 16	less than 5×10^{-10} /day
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep steps	1 to 10000
List sweep points	up to 2000 per table
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -115 dBm class
SSB phase noise	68B family excellent moderate cost class
Remote control	GPIO
Dimensions	133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg
RF output connector	TypeVfemale
Related CW 69A	69087A
Related ultra low noise sweep signal	69387A
Related Crevision	68387C

Notes

Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 68xxxB performance tables for 68x87B / 68387B (0.01–60 GHz). Confirm options and leveled power 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.