

**Aumictech**

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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68387C Synthesized High Performance Signal Generator, 10 MHz to 60 GHz

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



MODEL

Anritsu 68387C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68387C

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68387C is a synthesized signal generator delivering ultra-clean RF and microwave signals across 10 MHz to 60 GHz. Built for precision testing in defense, aerospace, and telecommunications, it combines rapid frequency and amplitude switching with low phase noise performance optimized for advanced modulation schemes and receiver validation. The instrument spans a wide output power range, supports analog and digital modulation types, and integrates into automated test environments through standard remote control interfaces. Designed for

laboratory and production use, the 68387C characterizes components, validates systems, and supports development across radar, electronic warfare, satellite communications, 5G, Wi-Fi, and RF/microwave component testing.

Technical Specifications

- Frequency Range: 10 MHz to 60 GHz
- Phase Noise: Optimized for advanced modulation schemes and receiver testing
- Signal Purity: Ultra-clean generation with low residual FM and AM
- Output Accuracy & Stability: High accuracy with excellent signal-to-noise ratio
- Modulation Support: Analog and digital modulation types
- Switching Performance: Rapid frequency and amplitude switching for efficient sweep operations

Key Features

- Wide output power range accommodating low-level signal injection through high-power component characterization
- Fast frequency and amplitude switching enabling accelerated test sequences
- Low phase noise suited to sensitive receiver and modulation testing
- High output accuracy and signal stability

Typical Applications

- Radar system evaluation and electronic warfare testing
- Satellite communications and avionics validation
- 5G and Wi-Fi system development and base station testing
- RF and microwave component characterization (amplifiers, filters, mixers, RF modules)
- Advanced receiver and signal integrity validation

Compatibility & Integration

- Standard remote control interfaces for automated test system integration
- Supports remote operation and management workflows

Benchtop form factor for laboratory and production environments

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 • 68C 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; IVI driver support in family • Upgradeable 68C/69B platform

Applications

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

68387C Characteristics / Specifications

PARAMETER	VALUE
Model	68387C
Manufacturer	Anritsu
Instrument Type	Synthesized Sweep/Signal Generator
Alias	68387C; Anritsu 68387C
Frequency range	0.01 GHz to 60 GHz
Family	68000C 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
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
Frequency resolution standard	1 kHz
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	68C family curves (excellent moderate-cost class)
Output power resolution	0.01 dB
RF output connector	TypeVfemale
Remote control	GPIB
Dimensions	133 mmHx 429 mmWx 597 mmDRelated CW 69B: 69087B
Related ultra low noise sweep signal	69387B
RelatedBrevison	68387B Notes Specs from Anritsu 69000B/68000C Series datasheet for 68×87C / 68387C (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
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
Frequency resolution standard	1 kHz
Frequency resolution Option 11	0.1 Hz
Internal time base aging	less than 2 x 10^-8/day
Internal time base aging Option 16	less than 5 x 10^-10/day
SSB phase noise	68C family curves (excellent moderate-cost class)
Output power resolution	0.01 dB
RF output connector	Type V female
Remote control	GPIO
Dimensions	133 mm H x 429 mm W x 597 mm D
Related CW 69B	69087B
Related ultra low noise sweep signal	69387B
Related B revision	68387B
Specifications	
PARAMETER	VALUE
Model	68387C
Manufacturer	Anritsu
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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
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
Frequency resolution standard	1 kHz
Frequency resolution Option 11	0.1 Hz
Internal time base aging	less than 2 x 10 ⁻⁸ /day
Internal time base aging Option 16	less than 5 x 10 ⁻¹⁰ /day
SSB phase noise	68C family curves (excellent moderate-cost class)
Output power resolution	0.01 dB
RF output connector	TypeVfemale
Remote control	GPIOB
Dimensions	133 mmHx 429 mmWx 597 mmDRelated CW 69B: 69087B
Related ultra low noise sweep signal	69387B
RelatedBrevision	68387B

Notes
Specs from Anritsu 69000B/68000C Series datasheet for 68x87C / 68387C (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

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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.