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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68287B Synthesized Signal Generator, 10 MHz to 60 GHz

Anritsu 68287B Synthesized Signal Generator 10 MHz to 60 GHz The Anritsu 68287B is a synthesized signal generator covering 0.01 GHz to 60 GHz in the 682XXB family. It provides CW, sweep, and comprehensive AM/FM/pulse modulation for broadband millimeter-wave signal simulation and ATE, with banded leveled output per 6XX87 tables and IEEE-488 GPIB control. The Anritsu 68287B is a synthesized signal generator covering 0.01 GHz to 60 GHz in the 682XXB family. It provides CW, sweep, and comprehensive AM/FM/pulse modulation for broadband millimeter-wave signal simulation and ATE, with banded leveled output per 6XX87 tables and IEEE-488 GPIB control.



MODEL

Anritsu 68287B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68287B

LISTING

<https://aumictechlabs.com/products/68287b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68287B is a synthesized signal generator delivering precise RF signal generation across 10 MHz to 60 GHz. Built for component testing and system verification in microwave, radar, and communications environments, it combines ultra-low phase noise with flexible modulation and sweep capabilities. The instrument supports both laboratory and field deployment, enabling complex signal scenarios and rigorous test protocols. Technical Specifications Frequency Range:

10 MHz to 60 GHz Output Power: Maximum: +17 dBm Minimum: -125 dBm Leveled output in 0.01 dB steps down to -115 dBm Phase Noise: -100 dBc/Hz single sideband at 10 kHz offset from 10 GHz Frequency Resolution: 1 kHz standard; 0.1 Hz optional Sweep Capabilities: Analog, step, and manual sweep modes Alternate sweep between two selectable ranges Sweep width: 1 kHz to full range (0.1 Hz to full range with Option 11) Step sweep: 1 to 10,000 steps with configurable dwell time (1 ms to 99 seconds) Step switching time: <15 ms + 1 ms/GHz step size or <40 ms typical maximum

Key Features Modulation: Internal AM, FM, phase, and pulse modulation. User-downloadable complex modulation. External modulation support for AM and FM. Arbitrary waveform generators for modulation signals. Advanced pulse generation for radar testing - doublet, triplet, and quadruplet pulses. Simultaneous synchronized modulations for complex scenarios. Control: GPIB interface. SCPI and Native mode remote control.

Typical Applications Component characterization in microwave and RF systems. Radar signal generation and testing. Communication system validation. Modulated signal verification across extended frequency ranges.

Compatibility & Integration Waveguide extensions available to 110 GHz. Compatible with related Anritsu measurement systems and control software.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 0.01 to 60 GHz • Full synthesized signal generator modulation • Standard 1 kHz resolution; Option 11 for 0.1 Hz • Banded leveled power per 6XX87 tables • Optional Option 16 high stability oven • Front panel LCD and GPIB remote • V female RF output • Upgradeable 68B platform

Applications

- Broadband modulated stimulus 10 MHz to 60 GHz • Millimeter-wave LO and receiver testing • GPIB automated component and system characterization • Signal simulation with full band from 10 MHz • Radar/EW signal generation workflows

68287B Characteristics / Specifications

PARAMETER	VALUE
Model	68287B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68287B; Anritsu 68287B
Frequency range	0.01 GHz to 60 GHz
Family	682XXB Synthesized Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz
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 dBm
Leveled output greater than 50 to 60 GHz	+2 dBm
Leveled output with step attenuator 0.01 to less than 2 GHz	+10 dBm
Leveled output with step attenuator 2 to 20 GHz	+8.5 dBm
Leveled output with step attenuator greater than 20 to 40 GHz	0 dBm
Leveled output with step attenuator greater than 40 to 50 GHz	-1.5 dBm
Leveled output with step attenuator greater than 50 to 60 GHz	-2 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
Modulation AM FM pulse	internal and external

PARAMETER	VALUE
Remote control	IEEE 488 GPIB
Display	Dot matrix LCD
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
AC power	90 to 132 or 180 to 264 Vac
Power consumption	about 400 VA
RF output connector	TypeVfemale
Related CW model	68087B
Related sweep model	68187B
Related sweep signal peer	68387B
Related ultra low noise signal	69287A
Harmonics family typical	-50 to -60 dBc by band
Nonharmonic spurious typical	-60 dBc Notes Power rows from Anritsu 68000B/69000A datasheet 6XX87 tables for 68287B (0.01–60 GHz). Confirm RF connector and Option 11/16 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
Internal time base aging	less than 2 x 10 ⁻⁸ /day
Internal time base aging Option 16	less than 5 x 10 ⁻¹⁰ /day
Modulation AM FM pulse	internal and external
Remote control	IEEE 488 GPIB
Display	Dot matrix LCD
Dimensions	about 5.25 in H x 16.875 in W x 23.5 in D
Weight	about 50 lb
AC power	90 to 132 or 180 to 264 Vac
Power consumption	about 400 VA
RF output connector	Type V female
Related CW model	68087B
Related sweep model	68187B
Related sweep signal peer	68387B
Related ultra low noise signal	69287A
Harmonics family typical	-50 to -60 dBc by band
Nonharmonic spurious typical	-60 dBc
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PARAMETER	VALUE
Model	68287B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68287B; Anritsu 68287B
Frequency range	0.01 GHz to 60 GHz
Family	682XXB Synthesized Signal Generators

PARAMETER	VALUE
CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz

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

Specifications

PARAMETER	VALUE
Output power resolution	0.01 dB
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option 16	less than 5×10^{-10} /day
Modulation AM FM pulse	internal and external
Remote control	IEEE 488 GPIB
Display	Dot matrix LCD
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
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Notes
 Power rows from Anritsu 68000B/69000A datasheet 6XX87 tables for 68287B (0.01–60 GHz). Confirm RF connector and Option 11/16 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.