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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68237B Synthesized Signal Generator, 2 GHz to 20 GHz

Anritsu 68237B Synthesized Signal Generator 2 GHz to 20 GHz The Anritsu 68237B is a synthesized signal generator covering 2 GHz to 20 GHz in the 682XXB/683XXB family. It provides CW, sweep, and AM/FM/pulse modulation with banded leveled output and IEEE-488 GPIB control. The Anritsu 68237B is a synthesized signal generator covering 2 GHz to 20 GHz in the 682XXB/683XXB family. It provides CW, sweep, and AM/FM/pulse modulation with banded leveled output and IEEE-488 GPIB control.



MODEL

Anritsu 68237B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68237B

LISTING

<https://aumictechlabs.com/products/68237b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68237B is a synthesized signal generator delivering precision RF and microwave signals across 2–20 GHz for demanding component, subsystem, and communication equipment testing. Its phase-locked architecture generates stable outputs with ultra-low SSB phase noise at –100 dBc (10 kHz offset, 10 GHz), supporting continuous wave, step sweep, manual sweep, and analog sweep modes. The instrument provides internal AM, FM, phase, and pulse modulation alongside external modulation inputs. Up to 20 independent, pre-settable markers (F0–F9, M0–M9) enable precise frequency identification during analog and step sweeps. Output power spans

–125 dBm to +17 dBm maximum, leveled in 0.01 dB steps to –120 dBm. Harmonic distortion remains below –60 dBc across 2–20 GHz, with non-harmonic distortion below –60 dBc from >2 GHz to ≤67 GHz. Frequency resolution reaches 0.1 Hz with Option 11; step size ranges 1 kHz to full span with adjustable dwell times from 1 ms to 99 seconds. Switching speed is typically <15 ms plus 1 ms/GHz step size, or <40 ms (whichever is less); steps <100 MHz switch in <5 ms. The instrument ships in rackmount form factor and supports SCPI programmability via Option 19 (IEEE 488.2–1987).

Technical Specifications
Frequency range: 2–20 GHz
Output power: –125 dBm to +17 dBm maximum
SSB phase noise: –100 dBc at 10 kHz offset (10 GHz)
Frequency resolution: 0.1 Hz (Option 11); standard resolution 100.0 mHz
Step size: 1 kHz to full range (0.1 Hz with Option 11)
Dwell time per step: 1 ms to 99 seconds
Frequency switching time: <15 ms + 1 ms/GHz; <40 ms maximum; <5 ms for steps <100 MHz
Output leveling: ±0.01 dB steps, down to –120 dBm
Harmonic distortion: ≤–60 dBc (2–20 GHz)
Non-harmonic distortion: 2 GHz to ≤67 GHz

Key Features
Continuous wave, step sweep, manual sweep, and analog sweep capability
Alternate sweep mode between two ranges with independent power levels
Internal modulation: AM, FM, phase modulation, pulse modulation
External modulation input support
Twenty independent markers with video marker output
Low spurious signal performance
SCPI programmability via Option 19
Rackmount configuration

Typical Applications
RF component development and verification
Microwave subsystem testing
Communication equipment characterization
Precision frequency sweep and marker-based measurement protocols

Compatibility & Integration
SCPI command control is available through Option 19, enabling remote instrument operation and integration into automated test systems compliant with IEEE 488.2–1987 standards.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 2 GHz to 20 GHz
- Synthesized phase-lock with high resolution
- Standard 1 kHz resolution; Option 11 for 0.1 Hz
- Banded leveled output per family power tables
- Optional Option 15 high power and Option 16 oven
- IEEE-488 GPIB remote programming

Applications

- Microwave stimulus across 2 GHz to 20 GHz
- ATE automated GPIB source applications
- Component and receiver testing in band
- LO substitution and swept measurements

High power Option 15 2 to 20 GHz: +17 dBm

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 Remote control: IEEE 488 GPIB Display: Dot matrix LCD Dimensions: about 5.25 inHx 16.875 inWx 23.5 inD Weight: about 50 lb AC power: 90 to 132 or 180 to 264 Vac Power consumption: about 400 VA Harmonics family typical: -50 to -60 dBc Nonharmonic spurious typical: -60 dBc SSB phase noise 68XXXB at 6 GHz 10 kHz class: about -86 to -88 dBc/Hz Related CW model: 68037B Related sweep model: 68137B Related sweep signal: 68337B Notes Power rows from Anritsu 68000B/69000A El Toro datasheet tables for 68237B (2 GHz to 20 GHz). Confirm Option 11/15/16, attenuator, and RF connector on the unit.

68237B Characteristics / Specifications

PARAMETER	VALUE
Model	68237B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68237B; Anritsu 68237B
Frequency range	2 GHz to 20 GHz
Family	682XXB Synthesized Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz
Leveled output 2 to 20 GHz	+13 dBm
Leveled with step attenuator 2 to 20 GHz	+11 dBm
High power Option 15 2 to 20 GHz	+17 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
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
Harmonics family typical	-50 to -60 dBc
Nonharmonic spurious typical	-60 dBc
SSB phase noise 68XXXB at 6 GHz 10 kHz class	about -86 to -88 dBc/Hz
Related CW model	68037B
Related sweep model	68137B

PARAMETER	VALUE
Related sweep signal	68337B Notes Power rows from Anritsu 68000B/69000A El Toro datasheet tables for 68237B (2 GHz to 20 GHz). Confirm Option 11/15/16, attenuator, and RF connector 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
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
Harmonics family typical	-50 to -60 dBc
Nonharmonic spurious typical	-60 dBc
Specifications	
PARAMETER	VALUE
Model	68237B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
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CW frequency resolution Option 11	0.1 Hz
Leveled output 2 to 20 GHz	+13 dBm
Leveled with step attenuator 2 to 20 GHz: +11 dBm High power Option 15 2 to 20 GHz: +17 dBm	
Specifications	

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SSB phase noise 68XXXB at 6 GHz 10 kHz class: about -86 to -88 dBc/Hz

Specifications

PARAMETER	VALUE
Related CW model	68037B
Related sweep model	68137B
Related sweep signal	68337B

Notes
Power rows from Anritsu 68000B/69000A El Toro datasheet tables for 68237B (2 GHz to 20 GHz). Confirm Option 11/15/16, attenuator, and RF connector 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.