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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68247B Synthesized Signal Generator, 0.01â€" 20.0 GHz

Anritsu 68247B Synthesized Signal Generator 10 MHz to 20 GHz The Anritsu 68247B is a synthesized signal generator covering 10 MHz 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 68247B is a synthesized signal generator covering 10 MHz 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 68247B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68247B

LISTING

<https://aumictechlabs.com/products/68247b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68247B is a synthesized signal generator delivering phase-locked RF sources from 10 MHz to 20 GHz for RF device testing, subsystem characterization, and ATE applications. Built for commercial telecom, aerospace, and defense environments, this instrument combines ultra-low phase noise with high spectral purity across its full band. It supports discrete CW generation, broadband and narrowband sweeps, and complex modulation scenarios - making it ideal for local oscillator replacement, component analysis, and signal simulation.

Technical Specifications
Frequency Performance
Frequency range: 10 MHz to 20 GHz
Frequency resolution: 100.0 mHz

(Option 11 provides 0.1 Hz resolution) SSB phase noise: -100 dBc at 10 kHz offset from 10 GHz
Output Power Power range: -125 dBm to $+17$ dBm Low spurious signal output Sweep & Frequency Control Step sweep with variable steps (1 to 10,000) and programmable step size Manual stepped, phase-locked frequency adjustment Analog sweep capability Alternate sweep between two ranges with independent power levels per range Programmable frequency agility: up to 1,000 non-sequential frequencies stored and addressed via GPIB control 20 independent, pre-settable markers (F0–F9, M0–M9) for analog and step sweep identification Modulation Capabilities Internal modulation: AM, FM, phase modulation, and pulse modulation 7 internal modulating waveforms including Gaussian noise User-defined arbitrary waveforms supported Pulse modulation via internal or external parameter setting Doublet, triplet, and quadruplet pulse modes for RADAR blind spot testing Simultaneous synchronized modulation for complex signal generation Option 10: Complex modulation capability External AM and FM modulation inputs Key Features Phase-locked synthesis ensures frequency accuracy and stability across applications. Flexible sweep modes accommodate both automated test sequences and manual tuning workflows. Marker functionality enables rapid frequency identification without external measurement tools. Multiple modulation formats support radar, communication, and sensor testing scenarios. Typical Applications RF component characterization, local oscillator replacement, signal simulation for receiver testing, automated production test environments, and radar/aerospace subsystem validation. Compatibility & Integration GPIB control interface for remote frequency and modulation programming. Option 15 provides high-power output from 2 to 26.5 GHz for extended power applications.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 10 MHz 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 10 MHz 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: 68047B Related sweep model: 68147B Related sweep signal: 68347B Notes Power rows from Anritsu 68000B/69000A El Toro datasheet tables for 68247B (10 MHz to 20 GHz). Confirm Option 11/15/16, attenuator, and RF connector on the unit.

68247B Characteristics / Specifications

PARAMETER	VALUE
Model	68247B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68247B; Anritsu 68247B
Frequency range	10 MHz to 20 GHz
Family	682XXB Synthesized Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz
Leveled output 0.01 to 20 GHz	+13 dBm
Leveled with step attenuator 0.01 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 68XXB at 6 GHz 10 kHz class	about -86 to -88 dBc/Hz
Related CW model	68047B
Related sweep model	68147B

PARAMETER

VALUE

Related sweep signal

68347B Notes Power rows from Anritsu 68000B/69000A El Toro datasheet tables for 68247B (10 MHz 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	68247B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68247B; Anritsu 68247B
Frequency range	10 MHz to 20 GHz
Family	682XXB Synthesized Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz
Leveled output 0.01 to 20 GHz	+13 dBm
Leveled with step attenuator 0.01 to 20 GHz: +11 dBm High power Option 15 2 to 20 GHz: +17 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
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

Specifications

PARAMETER	VALUE
Related CW model	68047B
Related sweep model	68147B
Related sweep signal	68347B

Notes
Power rows from Anritsu 68000B/69000A El Toro datasheet tables for 68247B (10 MHz 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 ·
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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.