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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68347B Synthesized Sweep/Signal Generator, 0.01 to 20 GHz

Anritsu 68347B Synthesized Sweep/Signal Generator 10 MHz to 20 GHz The Anritsu 68347B is a synthesized sweep/signal generator covering 0.01 GHz to 20 GHz in the 68000B synthesizer family. It combines CW, analog/step sweep, and comprehensive modulation at moderate cost relative to the ultra-low-noise 69A line, for broadband signal simulation and swept measurements to 20 GHz as the 6XX47B sweep/signal member. The Anritsu 68347B is a synthesized sweep/signal generator covering 0.01 GHz to 20 GHz in the 68000B synthesizer family. It combines CW, analog/step sweep, and comprehensive modulation at moderate cost relative to the ultra-low-noise 69A line, for broadband signal simulation and swept measurements to 20 GHz as the 6XX47B sweep/signal member.



MODEL

Anritsu 68347B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68347B

LISTING

<https://aumictechlabs.com/products/68347b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68347B is a synthesized sweep/signal generator delivering phase-locked RF signals from 0.01 to 20 GHz. It generates discrete CW frequencies, performs broad and narrow band sweeps, and supports analog, step, and manual sweep modes with output power ranging from –125 dBm to +17 dBm. The instrument provides ultra-low SSB phase noise of –100 dBc at 10 kHz

offset from 10 GHz, enabling precision testing of receivers, mixers, and RF components in laboratory and production environments.

Technical Specifications

Frequency Range: 0.01 to 20 GHz

Output Power: -125 to +17 dBm maximum; +13 dBm typical; +11 dBm with step attenuator

Phase Noise: -100 dBc/Hz at 10 kHz offset from 10 GHz

Switching Time: <15 ms +1 ms/GHz step size or <40 ms (typical maximum)

Frequency Stability: $<5 \times 10^{-10}$ /day (Option 16; 30 minute warm-up from standby)

RF Output Connector: Type K female

Power Requirements: 90–132 Vac or 180–264 Vac, 49–440 Hz, ≤ 400 VA

Physical Dimensions: 429 (W) $\times$ 133 (H) $\times$ 597 (D) mm; ≤ 23 kg

Key Features

- Internal AM, FM, phase, and pulse modulation capabilities
- User-downloadable complex modulation support
- Step sweep with variable 1 kHz resolution (0.1 Hz with Option 11) and dwell times to 99 seconds
- Programmable frequency agility: up to 1000 non-sequential frequencies via GPIB
- Alternate sweep mode for independent power control across two frequency ranges
- Manual sweep mode with phase-locked, user-selectable frequency steps
- Sweep width independently selected from 1 kHz to full range
- Step count variable from 1 to 10,000 steps

Typical Applications

- Receiver and mixer characterization
- RF component validation
- Signal simulation in test and measurement

Compatibility & Integration

IEEE-488 GPIB remote control enables programmable operation and integration into automated test systems. Optional step attenuator configurations (90 dB, 110 dB) and rack-mount kit available.

Features & description

From manufacturer datasheet

Features

• Coverage 0.01 to 20 GHz • Analog and phase locked step sweep • Internal/external AM, FM, pulse; optional phase modulation • 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 • Optional high power Option 15 • GPIB remote control

Applications

• Broadband swept network analysis to 20 GHz • AM/FM/pulse modulated signal simulation • ATE microwave stimulus • Radar and EW receiver testing • CW LO use when modulation and sweep are idle

High power with step attenuator Option 15 2 to 20 GHz: +15 dBm

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 -120 dBm class SSB phase noise: 68B family excellent moderate cost class Remote control: GPIB Dimensions: 133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg RF output connector: TypeKfemale Related CW 69A: 69047A Related ultra low noise sweep signal: 69347A Related sweep only: 68147B Related signal only: 68247B Notes Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 6XX47 power tables for 68347B (0.01–20 GHz). Confirm options and leveled power on the unit.

68347B Characteristics / Specifications

PARAMETER	VALUE
Model	68347B
Manufacturer	Anritsu
Instrument Type	Synthesized Sweep/Signal Generator
Alias	68347B; Anritsu 68347B
Frequency range	0.01 GHz to 20 GHz
Family	68000B synthesizers
Leveled power 0.01 to less than 2 GHz	+13 dBm
Leveled power 2 to 20 GHz	+13 dBm
Leveled power with step attenuator 0.01 to less than 2 GHz	+11 dBm
Leveled power with step attenuator 2 to 20 GHz	+11 dBm
High power Option 15 0.01 to less than 2 GHz	+13 dBm
High power Option 15 2 to 20 GHz	+17 dBm
High power with step attenuator Option 15 2 to 20 GHz	+15 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
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

PARAMETER	VALUE
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -120 dBm class
SSB phase noise	68B family excellent moderate cost class
Remote control	GPIB
Dimensions	133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg
RF output connector	TypeKfemale
Related CW 69A	69047A
Related ultra low noise sweep signal	69347A
Related sweep only	68147B
Related signal only	68247B Notes Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 6XX47 power tables for 68347B (0.01–20 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 -120 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 K female
Related CW 69A	69047A
Related ultra low noise sweep signal	69347A
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PARAMETER	VALUE
Model	68347B
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PARAMETER	VALUE
Instrument Type	Synthesized Sweep/Signal Generator
Alias	68347B; Anritsu 68347B
Frequency range	0.01 GHz to 20 GHz
Family	68000B synthesizers

Leveled power 0.01 to less than 2 GHz: +13 dBm
 Leveled power 2 to 20 GHz: +13 dBm
 Leveled power with step attenuator 0.01 to less than 2 GHz: +11 dBm
 Leveled power with step attenuator 2 to 20 GHz: +11 dBm
 High power Option 15 0.01 to less than 2 GHz: +13 dBm
 High power Option 15 2 to 20 GHz: +17 dBm
 High power with step attenuator Option 15 2 to 20 GHz: +15 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
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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 -120 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	TypeKfemale
Related CW 69A	69047A
Related ultra low noise sweep signal	69347A
Related sweep only	68147B
Related signal only	68247B

Notes

Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 6XX47 power tables for 68347B (0.01-20 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.