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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68345B Synthesized Sweep/Signal Generator, 0.5 to 20 GHz

Anritsu 68345B Synthesized Sweep/Signal Generator 0.5 GHz to 20 GHz The Anritsu 68345B is a synthesized sweep/signal generator covering 0.5 GHz to 20 GHz in the 68000B synthesizer family. It combines CW, analog/step sweep, and comprehensive modulation for broadband signal simulation and swept measurements in the 6XX45B coverage class. The Anritsu 68345B is a synthesized sweep/signal generator covering 0.5 GHz to 20 GHz in the 68000B synthesizer family. It combines CW, analog/step sweep, and comprehensive modulation for broadband signal simulation and swept measurements in the 6XX45B coverage class.



MODEL

Anritsu 68345B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68345B

LISTING

<https://aumictechlabs.com/products/68345b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 68345B is a synthesized sweep/signal generator delivering stable, precise RF and microwave signals across 0.5 to 20 GHz. Built for production testing, system validation, and R&D environments, it combines ultra-low phase noise with flexible modulation and sweep capabilities. Remote programming and GPIB control enable integration into automated test workflows. Technical Specifications Frequency Range: 0.5 to 20 GHz Output Power: +13 dBm maximum; -125 dBm minimum Phase Noise: -100 dBc/Hz SSB at 10 kHz offset from 10 GHz

Sweep Capability: Synthesized step sweep with 1 to 10,000 steps. Step size ranges from 1 kHz (0.1 Hz with Option 11) to full instrument range. Dwell time per step: 1 ms to 99 seconds. Frequency switching time: $<15 \text{ ms} + 1 \text{ ms/GHz step size}$ or $<40 \text{ ms}$ maximum (typical). Manual sweep mode provides phase-locked frequency adjustment between limits. Alternate sweep mode enables switching between two independent sweep ranges with different power levels. Sweep width independently selectable from 1 kHz (0.1 Hz with Option 11) to full range.

Key Features Internal AM, FM, phase, and pulse modulation User-downloadable complex modulation with 7 internal waveforms including Gaussian noise and arbitrary waveforms Pulse modulation controlled externally or by internal pulse generator Programmable frequency agility: up to 1,000 non-sequential phase-locked frequencies CW and step sweep modes Low spurious signal output Phase-locked step sweep across full frequency range

Typical Applications Local oscillator replacement, RF/microwave component testing, system validation, production test automation, and research applications requiring frequency agility and low phase noise.

Compatibility & Integration GPIB interface for remote programming and SCPI command control. Sweep subsystem fully programmable for automated test sequences.

Features & description

From manufacturer datasheet

Features

- Coverage 0.5 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
- GPIB remote control

Applications

- Broadband swept network analysis 0.5 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 AM bandwidth 3 dB: DC to 50 kHz minimum Pulse PRF leveled: 100 Hz to 5 MHz class Remote control: GPIB Dimensions: 133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg RF output connector: TypeKfemale Related CW model: 68045B Related sweep only: 68145B Related signal only: 68245B Related ultra low noise sweep signal: 69345A Notes Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 6XX45 power tables for 68345B (0.5–20 GHz). Confirm options and leveled power on the unit.

68345B Characteristics / Specifications

PARAMETER	VALUE
Model	68345B
Manufacturer	Anritsu
Instrument Type	Synthesized Sweep/Signal Generator
Alias	68345B; Anritsu 68345B
Frequency range	0.5 GHz to 20 GHz
Family	68000B synthesizers
Leveled power 0.5 to 20 GHz	+13 dBm
Leveled power with step attenuator 0.5 to 20 GHz	+11 dBm
High power Option 15 0.5 to 2.2 GHz	+13 dBm
High power Option 15 greater than 2.2 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
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator	to -120 dBm class

PARAMETER	VALUE
SSB phase noise	68B family excellent moderate cost class
AM bandwidth 3 dB	DC to 50 kHz minimum
Pulse PRF leveled	100 Hz to 5 MHz class
Remote control	GPIB
Dimensions	133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg
RF output connector	TypeKfemale
Related CW model	68045B
Related sweep only	68145B
Related signal only	68245B
Related ultra low noise sweep signal	69345A Notes Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 6XX45 power tables for 68345B (0.5–20 GHz). Confirm options and leveled power on the unit.
Bandwidth	3 dB: DC to 50 kHz minimum

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	
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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
AM bandwidth 3 dB	DC to 50 kHz minimum
Pulse PRF leveled	100 Hz to 5 MHz class
Remote control	GPIO
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 model	68045B
Related sweep only	68145B
Related signal only	68245B
Related ultra low noise sweep signal	69345A
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Leveled power with step attenuator 0.5 to 20 GHz: +11 dBm
 High power Option 15 0.5 to 2.2 GHz: +13 dBm
 High power Option 15 greater than 2.2 to 20 GHz: +17 dBm
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RF output connector	TypeKfemale
Related CW model	68045B
Related sweep only	68145B

PARAMETER	VALUE
Related signal only	68245B
Related ultra low noise sweep signal	69345A

Notes
Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 6XX45 power tables for 68345B (0.5–20 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.