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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68397B Synthesized Sweep/Signal Generator, 0.01 to 65 GHz

Anritsu 68397B Synthesized Sweep/Signal Generator 10 MHz to 65 GHz The Anritsu/Wiltron 68397B is a synthesized sweep/signal generator covering 0.01 GHz to 65 GHz in the 68000B Series. It provides CW, analog/step sweep, and modulation capabilities for the broadest coax-band microwave/mmWave signal generation without the ultra-low-noise 69A premium tier. It is the 68B high-performance counterpart to 69397A in the same frequency band. The Anritsu/Wiltron 68397B is a synthesized sweep/signal generator covering 0.01 GHz to 65 GHz in the 68000B Series. It provides CW, analog/step sweep, and modulation capabilities for the broadest coax-band microwave/mmWave signal generation without the ultra-low-noise 69A premium tier. It is the 68B high-performance counterpart to 69397A in the same frequency band.



MODEL

Anritsu 68397B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68397B

LISTING

<https://aumictechlabs.com/products/68397b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68397B is a synthesized sweep/signal generator delivering precise RF signal generation across 0.01 GHz to 65 GHz. Built for telecommunications, aerospace, defense, and microwave R&D, it combines low phase noise, stable output power, and flexible sweep capabilities

to characterize components, sub-assemblies, and complete systems. The instrument supports frequency and amplitude sweeps, step and list modes, with user-selectable sweep times from 1 ms to 1000 s and triggering options including internal, external, manual, and line.

Technical Specifications

Frequency Performance Frequency range: 0.01 GHz to 65 GHz Resolution: 0.01 Hz with user-selectable steps down to 1 mHz Switching speed: <5 ms between any two frequencies Setting time: <10 ms for frequency and amplitude

Output Characteristics Power range: -120 dBm to +10 dBm (varies with frequency) Power accuracy: ± 1.0 dB at +10 dBm, 1 GHz Power flatness: ± 0.5 dB across 1 GHz bandwidth at +10 dBm Output impedance: 50 Ohms nominal VSWR: <2.0:1 from 1 GHz to 65 GHz Signal Purity Phase noise: <-110 dBc/Hz at 10 kHz offset (10 GHz); <-100 dBc/Hz at 10 kHz offset (60 GHz) Harmonic distortion: <-35 dBc at 0 dBm output, <40 GHz Spurious outputs: <-60 dBc at <40 GHz, 70 dB on/off ratio, 10 ns to CW pulse width, 10 Hz to 100 kHz PRF

Key Features Four sweep modes: frequency, amplitude, step, and list Multiple triggering options: internal, external, manual, line Connectors: Type-N (female) to 18 GHz; 2.4 mm (female) above 18 GHz

Compatibility & Integration IEEE-488.2 (GPIB), Ethernet (10/100 Base-T), and USB control with SCPI command language support enable laboratory and production-line integration.

Features & description

From manufacturer datasheet

Features

- Coverage 0.01 to 65 GHz single coax

Applications

- Broadband CW and modulated stimulus 0.01 to 65 GHz

68397B Characteristics / Specifications

PARAMETER	VALUE
Model	68397B
Manufacturer	Anritsu (Wiltron 68B Series)
Instrument Type	Synthesized Sweep/Signal Generator
Alias	68397B; Anritsu 68397B
Frequency range	0.01 GHz to 65 GHz
Family	68000B synthesizers
Leveled power 0.01 to less than 2 GHz	+12 dBm
Leveled power 2 to 20 GHz	+10 dBm
Leveled power greater than 20 to 40 GHz	+2.5 dBm
Leveled power greater than 40 to 50 GHz	0 dBm
Leveled power greater than 50 to 65 GHz	-2 dBm
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator high band	to -105 dBm (-110 dBm typical)
Output power resolution	0.01 dB
Frequency resolution standard	1 kHz
Frequency resolution Option	0.1 Hz
Analog sweep time	30 ms to 99 s
Step sweep steps	1 to 10000
SSB phase noise at 10 GHz 10 kHz offset	-83 dBc/Hz class (68B table)
SSB phase noise at 65 GHz 10 kHz offset	-64 dBc/Hz class (68B table)
AM bandwidth 3 dB	DC to 50 kHz minimum
Pulse PRF leveled	100 Hz to 5 MHz class
RF output connector	TypeVfemale
Remote control	GPIB

PARAMETER	VALUE
Dimensions	429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg
AC power	less than or equal to 400 VA
Related ultra low noise CW	69097A
Related ultra low noise sweep signal	69397A
Related Crevision	68397C Notes Specs from Anritsu/Wiltron 68B/69A Series datasheet for 68397B (0.01–65 GHz). Confirm options and mmWave 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.

performance counterpart to 69397A in the same frequency band.

Applications

- Broadband CW and modulated stimulus 0.01 to 65 GHz
- Swept measurements to 65 GHz
- ATE broadband stimulus
- Component characterization with analog and step sweeps
- CW LO substitution across RF throughVband coax

Key Features

- Coverage 0.01 to 65 GHz single coax
- Analog, step, alternate, and manual sweep
- AM/FM/pulse modulation (internal/external per 68300B class)
- Power sweep and markers
- Optional 0.1 Hz resolution and high stability time base
- GPIB remote control
- V female connector class
- Companion to 69097A ultra low noise CW in selection tables

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	68397B
Manufacturer	Anritsu (Wiltron 68B Series)
Instrument Type	Synthesized Sweep/Signal Generator

Specifications

PARAMETER	VALUE
Alias	68397B; Anritsu 68397B
Frequency range	0.01 GHz to 65 GHz
Family	68000B synthesizers

Leveled power 0.01 to less than 2 GHz: +12 dBm

Leveled power 2 to 20 GHz: +10 dBm

Leveled power greater than 20 to 40 GHz: +2.5 dBm

Leveled power greater than 40 to 50 GHz: 0 dBm

Leveled power greater than 50 to 65 GHz: -2 dBm

Specifications

PARAMETER	VALUE
Minimum leveled power without attenuator	to -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator high band	to -105 dBm (-110 dBm typical)
Output power resolution	0.01 dB

Specifications

PARAMETER	VALUE
Frequency resolution standard	1 kHz
Frequency resolution Option 11	0.1 Hz
Analog sweep time	30 ms to 99 s

Step sweep steps: 1 to 10000
SSB phase noise at 10 GHz 10 kHz offset: -83 dBc/Hz class (68B table)
SSB phase noise at 65 GHz 10 kHz offset: -64 dBc/Hz class (68B table)

Specifications

PARAMETER	VALUE
AM bandwidth 3 dB	DC to 50 kHz minimum
Pulse PRF leveled	100 Hz to 5 MHz class
RF output connector	TypeVfemale

Specifications

PARAMETER	VALUE
Remote control	GPIOB
Dimensions	429 mmWx 133 mmHx 597 mmD Mass: less than or equal to 23 kg
AC power	less than or equal to 400 VA

Specifications

PARAMETER	VALUE
Related ultra low noise CW	69097A
Related ultra low noise sweep signal	69397A
RelatedCrevision	68397C

Notes
Specs from Anritsu/Wiltron 68B/69A Series datasheet for 68397B (0.01-65 GHz). Confirm options and mmWave 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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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.