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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68197B Synthesized Sweep Generator, 0.01 GHz to 65.0 GHz

Anritsu 68197B Synthesized Sweep Generator 10 MHz to 65 GHz The Anritsu 68197B is a synthesized sweep generator covering 0.01 GHz to 65 GHz in the 68000B synthesizer family. It provides CW and analog/step sweep stimulus for full-band broadband millimeter-wave swept measurements and LO substitution as the sweep member of the 6XX97B coverage class, with banded leveled output per 6XX97 tables. The Anritsu 68197B is a synthesized sweep generator covering 0.01 GHz to 65 GHz in the 68000B synthesizer family. It provides CW and analog/step sweep stimulus for full-band broadband millimeter-wave swept measurements and LO substitution as the sweep member of the 6XX97B coverage class, with banded leveled output per 6XX97 tables.



MODEL

Anritsu 68197B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68197B

LISTING

<https://aumictechlabs.com/products/68197b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68197B Synthesized Sweep Generator delivers precision RF and microwave signal generation across 0.01 GHz to 65.0 GHz. Built for R&D and production test environments, it combines broad frequency coverage with low distortion output and flexible modulation. Three sweep modes - continuous, triggered, and single - enable diverse measurement protocols with user-controlled timing. The instrument supports AM, FM, and pulse modulation for comprehensive

signal characterization. Its 50 Ohm output impedance with precision RF connectors ensures compatibility across UHF through millimeter-wave applications.

Technical Specifications

Frequency Performance Frequency Range: 0.01 GHz to 65.0 GHz Sweep Modes: Continuous, Triggered, Single Sweep Variable sweep time under user control

Output Characteristics Output Impedance: 50 Ohms RF Connectors: Type N (lower frequencies), K-type or equivalent precision connectors (up to 65 GHz)

Modulation Capabilities Supported Types: AM, FM, Pulse Modulation

Control & Interface Control Interface: GPIB (IEEE-488) Input Power: 100-240 VAC

Key Features

Synthesized signal generation with low distortion characteristics Rapid frequency switching across multi-octave bandwidth Three independent sweep modes for flexible test automation Precision 50 Ohm source impedance GPIB remote control for ATE integration

Typical Applications

Broadband RF and microwave component testing, amplifier and filter characterization, communications system validation, and material property measurement across sub-GHz through Ka-band frequencies.

Compatibility & Integration GPIB-equipped test systems can directly integrate the 68197B through standard IEEE-488 protocol. Type N and K-type connectors provide direct interface to standard RF test cables and devices.

Features & description

From manufacturer datasheet

Features

- Coverage 0.01 to 65 GHz
- Analog and phase locked step sweep
- 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
- Banded leveled power per 6XX97 tables
- GPIB remote control
- V female RF output

Applications

- Full band swept network analysis 10 MHz to 65 GHz
- CW and step sweep LO substitution
- ATE millimeter-wave stimulus
- Component and system swept characterization
- Upgrade path within 68B synthesizer family

68197B Characteristics / Specifications

PARAMETER	VALUE
Model	68197B
Manufacturer	Anritsu
Instrument Type	Synthesized Sweep Generator
Alias	68197B; Anritsu 68197B
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
Step attenuator above 40 GHz	not available per datasheet tables
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 -105 dBm class
Remote control	GPIB

PARAMETER	VALUE
Dimensions	133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg
RF output connector	TypeVfemale
Related CW model	68097B
Related signal model	68297B
Related sweep signal model	68397B
Related ultra low noise sweep	69197A
Harmonics family typical	-50 to -60 dBc by band
Nonharmonic spurious typical	-60 dBc Notes Specs from Anritsu/Wiltron 68B Series frequency charts and 6XX97 power tables for 68197B (0.01–65 GHz). Confirm options and mmWave 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
Step attenuator above 40 GHz	not available per datasheet tables
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 -105 dBm 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 V female
Related CW model	68097B
Related signal model	68297B
Related sweep signal model	68397B
Related ultra low noise sweep	69197A
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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

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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
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Remote control	GPIO
Dimensions	133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg
RF output connector	TypeVfemale
Related CW model	68097B
Related signal model	68297B
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Related ultra low noise sweep	69197A
Harmonics family typical	-50 to -60 dBc by band

PARAMETER	VALUE
Nonharmonic spurious typical	-60 dBc

Notes
Specs from Anritsu/Wiltron 68B Series frequency charts and 6XX97 power tables for 68197B (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 ·
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.