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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68195B Synthesized Sweep Generator, 0.5 to 65.0 GHz

Anritsu 68195B Synthesized Sweep Generator 0.5 to 65 GHz The Anritsu 68195B is a synthesized sweep generator covering 0.5 GHz to 65 GHz in the 68000B synthesizer family. It provides CW and analog/step sweep stimulus for broadband millimeter-wave swept measurements and LO substitution as the sweep member of the 6XX95B coverage class, with banded leveled output per 6XX95 tables. The Anritsu 68195B is a synthesized sweep generator covering 0.5 GHz to 65 GHz in the 68000B synthesizer family. It provides CW and analog/step sweep stimulus for broadband millimeter-wave swept measurements and LO substitution as the sweep member of the 6XX95B coverage class, with banded leveled output per 6XX95 tables.



MODEL

Anritsu 68195B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68195B

LISTING

<https://aumictechlabs.com/products/68195b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68195B is a synthesized sweep generator delivering continuous frequency coverage from 0.5 to 65.0 GHz. Built for RF and microwave testing in telecommunications, aerospace, and defense environments, it combines precise signal generation with configurable sweep modes and modulation capabilities. The instrument provides stable, accurate output across its full bandwidth, supported by synthesized architecture and standard 50 Ohm impedance. Designed for system

development, validation, and manufacturing workflows that demand repeatability and signal purity.

Technical Specifications

Frequency Range 0.5 GHz to 65.0 GHz continuous coverage

Output Characteristics Output Impedance: 50 Ohms

Sweep Capabilities

Sweep Modes: Continuous, list, and single sweep

Sweep Bandwidth: Full 0.5 GHz to 65.0 GHz range

Configurable sweep speeds for rapid diagnostics and detailed spectral analysis

Modulation

Internal Sources: AM, FM, and pulse modulation

External modulation input supported for complex signal generation

Signal Characteristics

Synthesized frequency architecture ensures high accuracy and long-term stability

Low harmonic distortion and spurious signal suppression for sensitive receiver testing

Interfaces GPIB (IEEE 488.2) remote control for automated test integration

Front panel controls and display for manual operation

Key Features

Wideband operation across 0.5–65.0 GHz in a single instrument

Multiple sweep modes with user-configurable speeds

Dual modulation paths: internal and external sources

Stable synthesized output for repeatable measurements

Typical Applications

Receiver sensitivity and selectivity characterization

Component and subsystem validation in RF/microwave systems

Production testing of telecommunications and defense equipment

Spectral measurement and harmonic analysis

Compatibility & Integration

GPIB interface enables seamless integration into automated test systems and ATE frameworks.

Front panel operation supports both standalone configuration and remote programming.

Features & description

From manufacturer datasheet

Features

• Coverage 0.5 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 6XX95 tables • GPIB remote control • V female RF output

Applications

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

68195B Characteristics / Specifications

PARAMETER	VALUE
Model	68195B
Manufacturer	Anritsu
Instrument Type	Synthesized Sweep Generator
Alias	68195B; Anritsu 68195B
Frequency range	0.5 GHz to 65 GHz
Family	68000B synthesizers
Leveled power 0.5 to 2.2 GHz	+11 dBm
Leveled power greater than 2.2 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

PARAMETER	VALUE
Remote control	GPIB
Dimensions	133 mmHx 429 mmWx 597 mmD Mass: less than or equal to 23 kg
RF output connector	TypeVfemale
Related CW model	68095B
Related signal model	68295B
Related sweep signal model	68395B
Related ultra low noise sweep	69195A
Harmonics family typical	-50 to -60 dBc by band
Nonharmonic spurious typical	-60 dBc Notes Specs from Anritsu/Wiltron 68B Series frequency charts and 6XX95 power tables for 68195B (0.5–65 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	
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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	68095B
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Leveled power greater than 2.2 to 20 GHz: +10 dBm
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 Leveled power greater than 40 to 50 GHz: 0 dBm
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Nonharmonic spurious typical	-60 dBc

Notes

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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.