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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68395B Synthesized Sweep/Signal Generator, 0.5 â€" 65 GHz

Anritsu 68395B Synthesized Sweep/Signal Generator 0.5 GHz to 65 GHz The Anritsu/Wiltron 68395B is a synthesized sweep/signal generator covering 0.5 GHz to 65 GHz in the 68000B Series. It provides CW, analog/step sweep, and modulation capabilities for broadband microwave/mm-wave signal generation without the ultra-low-noise 69A premium tier. The Anritsu/Wiltron 68395B is a synthesized sweep/signal generator covering 0.5 GHz to 65 GHz in the 68000B Series. It provides CW, analog/step sweep, and modulation capabilities for broadband microwave/mm-wave signal generation without the ultra-low-noise 69A premium tier.



MODEL

Anritsu 68395B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68395B

LISTING

<https://aumictechlabs.com/products/68395b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68395B is a synthesized sweep/signal generator spanning 0.5 GHz to 65 GHz, purpose-built for RF testing in radar, satellite communications, and telecommunications component development. It delivers stable CW and sweep signals with ultra-low phase noise and precise output power control, making it suitable for both laboratory characterization and production environments requiring broad frequency coverage. Technical Specifications Frequency

Range: 0.5 GHz to 65 GHz Output Power Leveled output: +17 dBm guaranteed to 20 GHz Output range: +17 dBm to -120 dBm in 0.01 dB steps Phase Noise: Ultra-low SSB phase noise Power Level Flatness (Analog Sweep) 0.5–20 GHz: 2.0 dB typical 20–40 GHz: 4.0 dB typical 40–65 GHz: 5.0 dB typical Sweep Modes & Performance Analog sweep supported Step sweep with variable dwell: 1 ms to 99 seconds Switching time: ≤ 15 ms + 1 ms/GHz, or ≤ 40 ms maximum typical; < 5 ms for steps < 100 MHz Alternate sweep mode between two ranges with independent power levels Manual sweep with phase-locked frequency adjustment Frequency Agility: Up to 1000 non-sequential frequencies under GPIB control as phase-locked step sweep Sweep Width: 1 kHz to full instrument range (0.1 Hz with Option 11); all frequency steps phase-locked Step Sweep 1 to 10,000 steps Step size: 1 kHz to full range (0.1 Hz with Option 11) Modulation Internal: 7 waveforms including Gaussian noise and user-defined arbitrary waveforms External pulse modulation with internal pulse generator Pulse types: doublet, triplet, quadruplet for radar blind-spot testing Simultaneous synchronized modulations across full frequency range Key Features Full remote programmability via GPIB Phase-locked frequency synthesis across all sweep modes Dual-range alternate sweep capability Configurable dwell time for production test optimization Typical Applications Radar system testing, satellite communication verification, RF component characterization, telecommunications manufacturing test Compatibility & Integration Full GPIB remote control enables integration into automated test equipment systems.

Features & description

From manufacturer datasheet

Features

- Coverage 0.5 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 69095A ultra-low-noise CW in selection tables

Applications

- Swept measurements to 65 GHz
- Modulated signal simulation across microwave/mm-wave
- ATE broadband stimulus
- Component characterization with analog and step sweeps
- CW LO substitution in the 0.5 to 65 GHz band

68395B Characteristics / Specifications

PARAMETER	VALUE
Model	68395B
Manufacturer	Anritsu (Wilton 68B Series)
Instrument Type	Synthesized Sweep/Signal Generator
Alias	68395B; Anritsu 68395B
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
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 mmDMass: less than or equal to 23 kg
AC power	less than or equal to 400 VA
Related ultra low noise CW	69095A
Related ultra low noise sweep signal	69395A
Related full band 0.01 start sweep signal	68397B / 69397A class Notes Specs from Anritsu/Wiltron 68B/69A Series datasheet for 68395B (0.5–65 GHz). Confirm options and mm-wave 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	
Specifications	
PARAMETER	VALUE
AM bandwidth 3 dB	DC to 50 kHz minimum
Pulse PRF leveled	100 Hz to 5 MHz class
RF output connector	Type V female
Remote control	GPiB
Dimensions	429 mm W x 133 mm H x 597 mm D
Mass	less than or equal to 23 kg
AC power	less than or equal to 400 VA
Related ultra low noise CW	69095A
Related ultra low noise sweep signal	69395A
Related full band 0.01 start sweep signal	68397B / 69397A class
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PARAMETER	VALUE
Model	68395B
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Instrument Type	Synthesized Sweep/Signal Generator
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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	
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Output power resolution	0.01 dB
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
Remote control	GPIOB
Dimensions	429 mmWx 133 mmHx 597 mmDMass: less than or equal to 23 kg
AC power	less than or equal to 400 VA
Related ultra low noise CW	69095A
Related ultra low noise sweep signal	69395A
Related full band 0.01 start sweep signal	68397B / 69397A class

Notes

Specs from Anritsu/Wiltron 68B/69A Series datasheet for 68395B (0.5–65 GHz). Confirm options and mm-wave 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.