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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68353B Synthesized Sweep/Signal Generator, 2 to 26.5 GHz

Anritsu 68353B Synthesized Sweep/Signal Generator 2 GHz to 26.5 GHz The Anritsu 68353B is a synthesized sweep/signal generator covering 2 GHz to 26.5 GHz in the 683XXB family. It combines CW, analog/step sweep, and comprehensive modulation for broadband signal simulation and swept measurements. The Anritsu 68353B is a synthesized sweep/signal generator covering 2 GHz to 26.5 GHz in the 683XXB family. It combines CW, analog/step sweep, and comprehensive modulation for broadband signal simulation and swept measurements.



MODEL

Anritsu 68353B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68353B

LISTING

<https://aumictechlabs.com/products/68353b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 68353B is a synthesized sweep/signal generator delivering precision RF signal generation across 2 to 26.5 GHz for high-frequency system testing. Built for radar, satellite, and advanced RF applications, it combines ultra-low phase noise (–100 dBc at 10 kHz offset from 10 GHz) with flexible modulation and rapid frequency switching to meet demanding measurement requirements. Technical Specifications Frequency Range: 2 GHz to 26.5 GHz Output Power: Maximum: +17 dBm Minimum: –125 dBm With step attenuator option: –130 dBm to +20 dBm

Without step attenuator: -20 dBm to +20 dBm Phase Noise: -100 dBc at 10 kHz offset from 10 GHz (SSB) Frequency Resolution: 1 kHz standard; optional 0.1 Hz (Option 11) Switching Speed: Typically less than 15 ms, plus 1 ms per GHz step size (maximum 40 ms) Power Level Flatness (Analog Sweep): 2 to 20 GHz: typically 2.0 dB variation 20 to 26.5 GHz: typically 4.0 dB variation Sweep Capabilities: Analog sweep with phase-locked frequencies (1 kHz to full range) Step sweep up to 10,000 steps Manual sweep with user-selectable steps or step size Alternate sweep mode between two ranges with independent power levels Sweep time: 30 ms to 99 seconds Sweep width accuracy: ± 30 MHz or ± 2 MHz (whichever is lesser) for speeds ≤ 50 MHz/ms Modulation: Internal AM, FM, and $\emptyset$ M; pulse modulation; user-downloadable arbitrary waveforms; doublet/triplet/quadruplet pulse support Interface: IEEE-488 (GPIB) for remote control Physical: Rack mounting available (Option 1) Key Features Phase-locked frequency synthesis across all sweep modes Multiple modulation formats for comprehensive signal simulation Low spurious performance inherent to design Fast frequency switching for dynamic testing scenarios Typical Applications Radar system characterization, satellite transceiver testing, RF component validation, and modulation fidelity assessment. Compatibility & Integration GPIB programmability enables integration into automated test systems and remote operation from external controllers.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 2 GHz to 26.5 GHz
- Synthesized phase-lock with high resolution
- Standard 1 kHz resolution; Option 11 for 0.1 Hz
- Banded leveled output per family power tables
- Optional Option 15 high power and Option 16 oven
- IEEE-488 GPIB remote programming

Applications

- Microwave stimulus across 2 GHz to 26.5 GHz
- ATE automated GPIB source applications
- Component and receiver testing in band
- LO substitution and swept measurements

High power Option 15 greater than 20 to 26.5 GHz: +10 dBm

Output power resolution: 0.01 dB Internal time base aging: less than 2×10^{-8} /day Internal time base aging Option 16: less than 5×10^{-10} /day Remote control: IEEE 488 GPIB Display: Dot matrix LCD Dimensions: about 5.25 inHx 16.875 inWx 23.5 inD Weight: about 50 lb AC power: 90 to 132 or 180 to 264 Vac Power consumption: about 400 VA Harmonics family typical: -50 to -60 dBc Nonharmonic spurious typical: -60 dBc SSB phase noise 68XXXB at 6 GHz 10 kHz class: about -86 to -88 dBc/Hz Related CW model: 68053B Related sweep model: 68153B Related signal model: 68253B Notes Power rows from Anritsu 68000B/69000A El Toro datasheet tables for 68353B (2 GHz to 26.5 GHz). Confirm Option 11/15/16, attenuator, and RF connector on the unit.

68353B Characteristics / Specifications

PARAMETER	VALUE
Model	68353B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Sweep/Signal Generator
Alias	68353B; Anritsu 68353B
Frequency range	2 GHz to 26.5 GHz
Family	683XXB Synthesized Sweep/Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz
Leveled output 2 to 20 GHz	+9 dBm
Leveled output greater than 20 to 26.5 GHz	+6 dBm
Leveled with step attenuator 2 to 20 GHz	+7 dBm
Leveled with step attenuator greater than 20 to 26.5 GHz	+3.5 dBm
High power Option 15 2 to 20 GHz	+13 dBm
High power Option 15 greater than 20 to 26.5 GHz	+10 dBm
Output power resolution	0.01 dB
Internal time base aging	less than 2×10^{-8} /day
Internal time base aging Option	less than 5×10^{-10} /day
Remote control	IEEE 488 GPIB
Display	Dot matrix LCD
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
AC power	90 to 132 or 180 to 264 Vac
Power consumption	about 400 VA
Harmonics family typical	-50 to -60 dBc
Nonharmonic spurious typical	-60 dBc

PARAMETER	VALUE
SSB phase noise 68XXXB at 6 GHz 10 kHz class	about -86 to -88 dBc/Hz
Related CW model	68053B
Related sweep model	68153B
Related signal model	68253B Notes Power rows from Anritsu 68000B/69000A El Toro datasheet tables for 68353B (2 GHz to 26.5 GHz). Confirm Option 11/15/16, attenuator, and RF connector 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
Output power resolution	0.01 dB
Internal time base aging	less than 2 x 10^-8/day
Internal time base aging Option 16	less than 5 x 10^-10/day
Remote control	IEEE 488 GPIB
Display	Dot matrix LCD
Dimensions	about 5.25 in H x 16.875 in W x 23.5 in D
Weight	about 50 lb
AC power	90 to 132 or 180 to 264 Vac
Power consumption	about 400 VA
Harmonics family typical	-50 to -60 dBc
Nonharmonic spurious typical	-60 dBc
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PARAMETER	VALUE
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Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Sweep/Signal Generator
Alias	68353B; Anritsu 68353B
Frequency range	2 GHz to 26.5 GHz
Family	683XXB Synthesized Sweep/Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz
Leveled output 2 to 20 GHz	+9 dBm
Leveled output greater than 20 to 26.5 GHz: +6 dBm Leveled with step attenuator 2 to 20 GHz: +7 dBm Leveled with step attenuator greater than 20 to 26.5 GHz: +3.5 dBm High power Option 15 2 to 20 GHz: +13 dBm High power Option 15 greater than 20 to 26.5 GHz: +10 dBm	

Specifications

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Output power resolution	0.01 dB
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SSB phase noise 68XXXB at 6 GHz 10 kHz class: about -86 to -88 dBc/Hz

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Related sweep model	68153B
Related signal model	68253B

Notes

Power rows from Anritsu 68000B/69000A El Toro datasheet tables for 68353B (2 GHz to 26.5 GHz). Confirm Option 11/15/16, attenuator, and RF connector 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.