

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

ANRITSU

Anritsu 68153B Synthesized Sweep Generator, 2 to 26.5 GHz

Anritsu 68153B Synthesized Sweep Generator 2 to 26.5 GHz The Anritsu 68153B is a synthesized sweep generator covering 2 to 26.5 GHz in the 68100B family. It provides phase-locked CW plus analog and step sweeps with optional high power and high-stability time base for scalar/vector source substitution and ATE stimulus through K-connector microwave bands. The Anritsu 68153B is a synthesized sweep generator covering 2 to 26.5 GHz in the 68100B family. It provides phase-locked CW plus analog and step sweeps with optional high power and high-stability time base for scalar/vector source substitution and ATE stimulus through K-connector microwave bands.



MODEL

Anritsu 68153B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68153B

LISTING

<https://aumictechlabs.com/products/68153b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 68153B is a synthesized sweep generator delivering stable, precise RF signals across 2 GHz to 26.5 GHz. Purpose-built for frequency-dependent module evaluation and broadband component testing, it executes analog, step, and manual sweep modes with configurable step counts up to 10,000. The instrument supports remote operation via GPIB and SCPI for automated test environments. Its signal stability and frequency agility make it essential for characterizing RF performance across microwave and millimeter-wave bands. Technical Specifications Frequency

Generation Frequency range: 2 GHz to 26.5 GHz Sweep modes: Analog, Step (variable steps to 10,000), Manual Interface & Control GPIB (IEEE 488) for remote operation SCPI command compatibilityKey Features Broad microwave and millimeter-wave coverage in single instrument Flexible sweep architecture accommodates fast analog sweeps and precision step-sweep applications Programmable control reduces test setup complexityTypical Applications RF filter and amplifier characterization Broadband component performance evaluation Frequency-dependent subsystem testing Automated measurement sequences via GPIB integrationCompatibility & Integration The 68153B integrates into standard 50-ohm RF test benches. GPIB and SCPI interfaces enable integration into automated test systems and data acquisition frameworks without additional interface cards.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 2 to 26.5 GHz
- Synthesized sweep with high resolution phase lock
- Standard 1 kHz resolution; Option 11 for 0.1 Hz
- Banded leveled power per 6XX53 tables
- Optional Option 15 high power and Option 16 oven
- IEEE-488 GPIB remote programming

Applications

- Analog and step sweep stimulus 2 to 26.5 GHz
- Scalar network analyzer and component sweep testing
- ATE microwave source with GPIB automation
- LO substitution with sweep capability in this band

High power Option 15 20 to 26.5 GHz: plus 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 SSB phase noise 68XXXB at 20 GHz 10 kHz offset: -78 dBc/Hz SSB phase noise 68XXXB at 26.5 GHz 10 kHz offset: -76 dBc/Hz Harmonics 2 to 20 GHz family: -60 dBc class Nonharmonic spurious typical: -60 dBc Sweep modes: analog and step sweep Remote control: IEEE 488 GPIB 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 Related CW model: 68053B Related signal generator: 68253B Related sweep signal model: 68353B Related ultra low noise sweep: 69153A RF connector class: TypeKfemale for models to 40 GHz Notes Power rows from Anritsu 68000B/69000A datasheet 6XX53 tables for 68153B (2–26.5 GHz). Confirm Option 15/16 and RF connector on the unit.

68153B Characteristics / Specifications

PARAMETER	VALUE
Model	68153B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Sweep Generator
Alias	68153B; Anritsu 68153B
Frequency range	2 GHz to 26.5 GHz
Family	68100B Synthesized Sweep Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz
Leveled output 2 to 20 GHz	plus 9 dBm
Leveled output greater than 20 to 26.5 GHz	plus 6 dBm
Leveled with step attenuator 2 to 20 GHz	plus 7 dBm
Leveled with step attenuator greater than 20 to 26.5 GHz	plus 3.5 dBm
High power Option 15 2 to less than 20 GHz	plus 13 dBm
High power Option 15 20 to 26.5 GHz	plus 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
SSB phase noise 68XXXB at 20 GHz 10 kHz offset	-78 dBc/Hz
SSB phase noise 68XXXB at 26.5 GHz 10 kHz offset	-76 dBc/Hz
Harmonics 2 to 20 GHz family	-60 dBc class
Nonharmonic spurious typical	-60 dBc
Sweep modes	analog and step sweep

PARAMETER	VALUE
Remote control	IEEE 488 GPIB
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
AC power	90 to 132 or 180 to 264 Vac
Related CW model	68053B
Related signal generator	68253B
Related sweep signal model	68353B
Related ultra low noise sweep	69153A
RF connector class	TypeKfemale for models to 40 GHz Notes Power rows from Anritsu 68000B/69000A datasheet 6XX53 tables for 68153B (2–26.5 GHz). Confirm Option 15/16 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	
Specifications	
PARAMETER	VALUE
Harmonics 2 to 20 GHz family	-60 dBc class
Nonharmonic spurious typical	-60 dBc
Sweep modes	analog and step sweep
Remote control	IEEE 488 GPIB
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
Related CW model	68053B
Related signal generator	68253B
Related sweep signal model	68353B
Related ultra low noise sweep	69153A
RF connector class	Type K female for models to 40 GHz
Specifications	
PARAMETER	VALUE
Model	68153B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Sweep Generator
Alias	68153B; Anritsu 68153B
Frequency range	2 GHz to 26.5 GHz
Family	68100B Synthesized Sweep Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz
Leveled output 2 to 20 GHz	plus 9 dBm
Leveled output greater than 20 to 26.5 GHz: plus 6 dBm	
Leveled with step attenuator 2 to 20 GHz: plus 7 dBm	
Leveled with step attenuator greater than 20 to 26.5 GHz: plus 3.5 dBm	

High power Option 15 2 to less than 20 GHz: plus 13 dBm
High power Option 15 20 to 26.5 GHz: plus 10 dBm

Specifications

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

SSB phase noise 68XXXB at 20 GHz 10 kHz offset: -78 dBc/Hz
SSB phase noise 68XXXB at 26.5 GHz 10 kHz offset: -76 dBc/Hz

Specifications

PARAMETER	VALUE
Harmonics 2 to 20 GHz family	-60 dBc class
Nonharmonic spurious typical	-60 dBc
Sweep modes	analog and step sweep
Remote control	IEEE 488 GPIB
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
AC power	90 to 132 or 180 to 264 Vac
Related CW model	68053B
Related signal generator	68253B
Related sweep signal model	68353B
Related ultra low noise sweep	69153A
RF connector class	TypeKfemale for models to 40 GHz

Notes
Power rows from Anritsu 68000B/69000A datasheet 6XX53 tables for 68153B (2-26.5 GHz). Confirm Option 15/16 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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.