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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68137B Synthesized Sweep Generator, 2 GHz to 20.0 GHz

Anritsu 68137B Synthesized Sweep Generator 2 GHz to 20 GHz The Anritsu 68137B is a microprocessor-based synthesized sweep generator covering 2 GHz to 20 GHz in the 681XXB family. It provides phase-locked CW plus analog and step sweeps with front-panel LCD and IEEE-488 GPIB control. The Anritsu 68137B is a microprocessor-based synthesized sweep generator covering 2 GHz to 20 GHz in the 681XXB family. It provides phase-locked CW plus analog and step sweeps with front-panel LCD and IEEE-488 GPIB control.



MODEL

Anritsu 68137B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68137B

LISTING

<https://aumictechlabs.com/products/68137b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68137B Synthesized Sweep Generator delivers phase-locked signal generation across 2–20.0 GHz for RF and microwave component testing, system validation, and production environments. This instrument combines rapid frequency switching, ultra-low phase noise, and flexible sweep modes - including analog, step, manual, and alternate sweep configurations - with programmable frequency agility supporting up to 1000 non-sequential frequencies under GPIB control. Engineers rely on it for demanding test scenarios requiring low-distortion outputs and precise modulation control. Technical Specifications Frequency range: 2–20.0 GHz Output impedance: 50 Ω Maximum output power: +17 dBm (leveled to 20 GHz) Minimum output power:

–125 dBm Frequency resolution: 0.1 Hz (optional) Phase noise: –101 dBc/Hz (minimum) and –54 dBc/Hz (maximum) single-side-band at 20 GHz Harmonics: –35 dBc (typical) Switching time: <15 ms + 1 ms/GHz step size or <40 ms (whichever is less); <5 ms for steps <100 MHz Dwell time per step: 1 ms to 99 seconds (variable)Key Features Broad and narrow-band sweep modes with user-selectable step counts (1 to 10,000) or step sizes (1 kHz to full range) Sweep width independently selected from 1 kHz to full frequency range Alternate sweep mode: sweeps between two ranges with independent power levels per range Manual sweep mode: phase-locked frequency stepping with user-configurable steps Programmable frequency agility: addresses up to 1000 stored frequencies as phase-locked step sweep Internal AM, FM, phase modulation, and pulse modulation with swept delay External AM (log or linear) and external FM (locked or unlocked) Flexible pulse triggering: free-run, delayed, gated, and composite modes Front-panel control with GPIB remote interfaceTypical Applications Component and subsystem testing across X, Ku, and K bands System validation and characterization Automated production test and burn-in Radar and satellite signal simulationCompatibility & Integration Fully programmable via GPIB; front-panel operation supported. Frequency settings and sweep parameters stored in volatile memory under remote control.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 2 GHz to 20 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 20 GHz • ATE automated GPIB source applications • Component and receiver testing in band • LO substitution and swept measurements

High power Option 15 2 to 20 GHz: +17 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: 68037B Related signal generator: 68237B Related sweep signal: 68337B Notes Power rows from Anritsu 68000B/69000A El Toro datasheet tables for 68137B (2 GHz to 20 GHz). Confirm Option 11/15/16, attenuator, and RF connector on the unit.

68137B Characteristics / Specifications

PARAMETER	VALUE
Model	68137B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Sweep Generator
Alias	68137B; Anritsu 68137B
Frequency range	2 GHz to 20 GHz
Family	681XXB Synthesized Sweep Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz
Leveled output 2 to 20 GHz	+13 dBm
Leveled with step attenuator 2 to 20 GHz	+11 dBm
High power Option 15 2 to 20 GHz	+17 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
SSB phase noise 68XXXB at 6 GHz 10 kHz class	about -86 to -88 dBc/Hz
Related CW model	68037B
Related signal generator	68237B

PARAMETER	VALUE
Related sweep signal	68337B Notes Power rows from Anritsu 68000B/69000A El Toro datasheet tables for 68137B (2 GHz to 20 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	
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
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
Specifications	
PARAMETER	VALUE
Model	68137B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Sweep Generator
Alias	68137B; Anritsu 68137B
Frequency range	2 GHz to 20 GHz
Family	681XXB Synthesized Sweep Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz
Leveled output 2 to 20 GHz	+13 dBm
Leveled with step attenuator 2 to 20 GHz: +11 dBm High power Option 15 2 to 20 GHz: +17 dBm	
Specifications	

PARAMETER	VALUE
Output power resolution	0.01 dB
Internal time base aging	less than 2×10^{-8} /day
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Remote control	IEEE 488 GPIB
Display	Dot matrix LCD
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Harmonics family typical	-50 to -60 dBc
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SSB phase noise 68XXXB at 6 GHz 10 kHz class: about -86 to -88 dBc/Hz

Specifications

PARAMETER	VALUE
Related CW model	68037B
Related signal generator	68237B
Related sweep signal	68337B

Notes

Power rows from Anritsu 68000B/69000A El Toro datasheet tables for 68137B (2 GHz to 20 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.