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Data Sheet
August 13, 2026

ANRITSU

Anritsu 68245B Synthesized Signal Generator, 0.5 â€“ 20 GHz

Anritsu 68245B Synthesized Signal Generator 0.5 GHz to 20 GHz The Anritsu 68245B isasynthesized signal generator covering 0.5 GHz to 20 GHz in the 682XXB family. It provides CW, sweep, and AM/FM/pulse modulation with banded leveled output and IEEE-488 GPIB control for signal simulation and ATE in the 6XX45 coverage class. The Anritsu 68245B isasynthesized signal generator covering 0.5 GHz to 20 GHz in the 682XXB family. It provides CW, sweep, and AM/FM/pulse modulation with banded leveled output and IEEE-488 GPIB control for signal simulation and ATE in the 6XX45 coverage class.

MODEL Anritsu 68245B	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 68245B	LISTING https://aumictechlabs.com/products/68245b-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68245B is a synthesized signal generator delivering stable, accurate RF signals across 0.5 GHz to 20 GHz for component testing, receiver characterization, and system integration. Built on microprocessor-based architecture with high-resolution phase-lock capability, the instrument combines flexible modulation, programmable frequency agility, and precise sweep control in a rackmount form factor.Technical Specifications Frequency Range: 0.5 GHz to 20 GHz Output Power: +17 dBm maximum, –125 dBm minimum Phase Noise: –100 dBc SSB

at 10 kHz offset from 10 GHz Frequency Stability: $<5\times10^{-10}$ per day (oven-stabilized reference) Frequency Resolution: 1 kHz standard; 0.1 Hz with Option 11Key Features Modulation & Waveforms Internal AM, FM, ØM, and pulse modulation User-downloaded complex modulation capability Arbitrary waveform generation for ASK, PSK, FSK simulation Doublet, triplet, quadruplet pulse modes for RADAR testing Sweep Capabilities Step sweep, analog sweep, alternate sweep, manual sweep modes Sweep width: 1 kHz to full range (0.1 Hz minimum with Option 11) Step sweep: 1 to 10,000 steps with variable step size Programmable frequency agility: up to 1,000 non-sequential frequencies via GPIB 20 independent, pre-settable markers (F0–F9, M0–M9) for precise frequency identification Programming & Control GPIB (IEEE 488.2) support with SCPI programming option Microprocessor control with front panel data entry and display No Front Panel option available (Option 17A) for remote-only operationTypical Applications Component testing, receiver testing, system integration, RADAR blind spot evaluation.Compatibility & Integration Rackmount configuration. Rear panel includes BNC Twinax connectors. Optional mmWave Module B (Option 18) available for millimeter-wave applications.

Features & description

From manufacturer datasheet

Features

• Frequency coverage 0.5 GHz to 20 GHz • Synthesized phase-lock with high resolution • Standard 1 kHz resolution; Option 11 for 0.1 Hz • Banded leveled output per 6XX45 tables • Optional Option 15 high power and Option 16 oven • IEEE-488 GPIB remote programming

Applications

• Microwave stimulus across 0.5 GHz to 20 GHz • Modulated receiver and component testing • ATE automated GPIB source applications • LO substitution and swept measurements

High power with step attenuator Option 15 2 to 20 GHz: +15 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 Modulation AM FM pulse: internal and external 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: 68045B Related sweep model: 68145B Related sweep signal: 68345B Related ultra low noise: 69145A Notes Power rows from Anritsu 68000B/69000A El Toro datasheet 6XX45 tables for 68245B (0.5–20 GHz). Confirm Option 11/15/16, attenuator, and RF connector on the unit.

68245B Characteristics / Specifications

PARAMETER	VALUE
Model	68245B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68245B; Anritsu 68245B
Frequency range	0.5 GHz to 20 GHz
Family	682XXB Synthesized Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz
Leveled output 0.5 to 20 GHz	+13 dBm
Leveled with step attenuator 0.5 to 20 GHz	+11 dBm
High power Option 15 0.5 to 2.2 GHz	+13 dBm
High power Option 15 greater than 2.2 to 20 GHz	+17 dBm
High power with step attenuator Option 15 2 to 20 GHz	+15 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
Modulation AM FM pulse	internal and external
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	68045B
Related sweep model	68145B
Related sweep signal	68345B
Related ultra low noise	69145A Notes Power rows from Anritsu 68000B/69000A El Toro datasheet 6XX45 tables for 68245B (0.5–20 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

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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
Modulation AM FM pulse	internal and external
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
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Harmonics family typical	-50 to -60 dBc
Nonharmonic spurious typical	-60 dBc

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Family	682XXB Synthesized Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz
Leveled output 0.5 to 20 GHz	+13 dBm

Leveled with step attenuator 0.5 to 20 GHz: +11 dBm
High power Option 15 0.5 to 2.2 GHz: +13 dBm
High power Option 15 greater than 2.2 to 20 GHz: +17 dBm
High power with step attenuator Option 15 2 to 20 GHz: +15 dBm

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

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PARAMETER	VALUE
Related CW model	68045B
Related sweep model	68145B
Related sweep signal	68345B
Related ultra low noise	69145A

Notes
Power rows from Anritsu 68000B/69000A El Toro datasheet 6XX45 tables for 68245B (0.5–20 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

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