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Data Sheet
August 13, 2026

ANRITSU

Anritsu 68285B Synthesized Signal Generator, 0.5 â€“ 60.0 GHz

Anritsu 68285B Synthesized Signal Generator 0.5 GHz to 60 GHz The Anritsu 68285B isasynthesized signal generator covering 500 MHz to 60 GHz in the 682XXB family. It provides CW, sweep, and comprehensive AM/FM/pulse modulation for millimeter-wave signal simulation and ATE, with banded leveled output per 6XX85 tables and IEEE-488 GPIB control. Related 68085B is CW-only; 68185B is sweep-only in the same band. The Anritsu 68285B isasynthesized signal generator covering 500 MHz to 60 GHz in the 682XXB family. It provides CW, sweep, and comprehensive AM/FM/pulse modulation for millimeter-wave signal simulation and ATE, with banded leveled output per 6XX85 tables and IEEE-488 GPIB control. Related 68085B is CW-only; 68185B is sweep-only in the same band.

MODEL **Anritsu 68285B**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **68285B**	LISTING **https://aumictechlabs.com/products/68285b-2/**

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

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68285B is a synthesized signal generator delivering precise RF performance across 0.5 to 60.0 GHz. Built for demanding test environments, it combines low phase noise with wide dynamic range and analog modulation support. Fast switching times - under 1 ms for power-only changes and under 20 ms with attenuator shifts - enable rapid measurement sequences.Flexible

sweep modes (step, manual, and analog) with phase-locked frequency steps from 1 kHz (0.1 Hz with Option 11) to full range support complex signal profiling. Step sweep accommodates 1 to 10,000 steps with dwell times from 1 ms to 99 seconds. Sweep switching completes in <15 ms + 1 ms per GHz step size or 130 dB with attenuator engaged.Technical Specifications Frequency Range: 0.5 to 60.0 GHz Minimum Settable Power: -105 dBm (typical -110 dBm with Option 15B) Unleveled Output Power Range: >40 dB below maximum (without attenuator); >130 dB below maximum (with attenuator) Power Switching Time: <1 ms without attenuator change; <20 ms with attenuator change Sweep Step Size: 1 kHz to full range (0.1 Hz with Option 11) Step Sweep Range: 1 to 10,000 steps Dwell Time per Step: 1 ms to 99 seconds Sweep Switching Time: <15 ms + 1 ms/GHz step size, or <40 ms maximum Modulation: Analog modulation (AM, FM, Phase, Pulse) Interfaces: GPIB, SCPIKey Features Phase-locked frequency steps across full 0.5–60.0 GHz range Alternate sweep mode with frequency and power level independence Manual sweep with user-selectable step count or step size Unleveled dynamic range exceeding 130 dB with step attenuatorTypical Applications Aerospace and defense RF testing Wireless communications device characterization High-frequency component validationCompatibility & Integration GPIB and SCPI command interfaces enable integration into automated test systems. Rack mounting available with Option 1.

Features & description

From manufacturer datasheet

Features

• Frequency coverage 500 MHz to 60 GHz • Full synthesized signal-generator modulation suite • Standard 1 kHz resolution; Option 11 for 0.1 Hz • Banded leveled power per 6XX85 tables • Optional Option 16 high-stability oven • Front-panel LCD and GPIB remote

Applications

• Modulated microwave/mmWave stimulus 0.5 to 60 GHz • Receiver and radar signal simulation • GPIB automated broadband component test • LO substitution with modulation in V/W-adjacent coax bands

68285B Characteristics / Specifications

PARAMETER	VALUE
Model	68285B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68285B; Anritsu 68285B
Frequency range	0.5 GHz to 60 GHz
Family	682XXB Synthesized Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz
Leveled output 0.5 to 2.2 GHz	+11 dBm
Leveled output greater than 2.2 to 20 GHz	+10 dBm
Leveled output greater than 20 to 40 GHz	+2.5 dBm
Leveled output greater than 40 to 50 GHz	+2 dBm
Leveled output greater than 50 to 60 GHz	+2 dBm
Leveled with step attenuator 0.5 to 2.2 GHz	+10 dBm
Leveled with step attenuator greater than 2.2 to 20 GHz	+8.5 dBm
Leveled with step attenuator greater than 20 to 40 GHz	0 dBm
Leveled with step attenuator greater than 40 to 50 GHz	-1.5 dBm
Leveled with step attenuator greater than 50 to 60 GHz	-2 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

PARAMETER	VALUE
Remote control	IEEE 488 GPIB
Display	Dot matrix LCD
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
Related CW model	68085B
Related sweep model	68185B
Related from 10 MHz same upper band	68287B / 68087B family
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 Notes Power rows from Anritsu 68000B/69000A datasheet 6XX85 tables for 68285B (0.5–60 GHz). Confirm Option 11/16 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

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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
Related CW model	68085B
Related sweep model	68185B
Related from 10 MHz same upper band	68287B / 68087B family
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Leveled output greater than 40 to 50 GHz: +2 dBm
Leveled output greater than 50 to 60 GHz: +2 dBm
Leveled with step attenuator 0.5 to 2.2 GHz: +10 dBm
Leveled with step attenuator greater than 2.2 to 20 GHz: +8.5 dBm
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Notes
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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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