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Data Sheet
August 13, 2026

ANRITSU

Anritsu 68295B Synthesized Signal Generator

Anritsu 68295B Synthesized Signal Generator 0.5 GHz to 65 GHz The Anritsu 68295B isasynthesized signal generator covering 500 MHz to 65 GHz in the 682XXB family. It provides CW, sweep, and comprehensive AM/FM/pulse modulation for broadband millimeter-wave signal simulation and ATE, with banded leveled output per 6XX95 tables and IEEE-488 GPIB control. The Anritsu 68295B isasynthesized signal generator covering 500 MHz to 65 GHz in the 682XXB family. It provides CW, sweep, and comprehensive AM/FM/pulse modulation for broadband millimeter-wave signal simulation and ATE, with banded leveled output per 6XX95 tables and IEEE-488 GPIB control.

MODEL **Anritsu 68295B**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **68295B**	LISTING **https://aumictechlabs.com/products/68295b-2/**

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68295B Synthesized Signal Generator delivers precision RF and microwave signal generation across 10 MHz to 65 GHz, engineered for R&D and production test environments demanding high accuracy and spectral purity. The instrument provides output power from -10 dBm to +30 dBm with phase noise typically -136 dBc/Hz and low spurious signal performance.Technical Specifications Frequency Range: 10 MHz to 65 GHz Output Power: -10 dBm to +30 dBm (up to +17 dBm available) Phase Noise: Typically -136 dBc/Hz Frequency Switching Time: <15 ms + 1 ms/GHz step size or <40 ms (typical maximum) Sweep Step Size: 1

kHz to full frequency range (0.1 Hz with Option 11) Dwell Time: 1 ms to 99 seconds per step Step Sweep: 1 to 10,000 steps with phase-locked operation across entire sweep width Programmable Frequency Agility: Up to 1,000 non-sequential frequencies via GPIB controlKey Features AM and FM modulation via external signals or internal arbitrary waveform generators Seven internal modulating waveforms including Gaussian noise and user-defined arbitrary waveforms Pulse modulation with doublet, triplet, or quadruplet pulse support for RADAR blind spot testing Simultaneous synchronized modulations for complex signal scenarios Analog sweep, step sweep, and manual sweep modes Alternate sweep mode between two independent sweep ranges with selectable power levels Up to 20 pre-settable frequency markers (F0–F9, M0–M9) with CRT display visibility Marker frequency accuracy matches sweep frequency accuracy GPIB interface for remote programming and controlTypical Applications RF component characterization, microwave receiver testing, radar system development, and production validation in environments requiring frequency agility and low phase noise performance.Compatibility & Integration GPIB-equipped for instrument control and automated test sequences.

Features & description

From manufacturer datasheet

Features

• Frequency coverage 500 MHz to 65 GHz • Full synthesized signal-generator modulation • Standard 1 kHz resolution; Option 11 for 0.1 Hz • Banded leveled power per 6XX95 tables • Optional Option 16 high-stability oven • Front-panel LCD and GPIB remote

Applications

• Broadband modulated stimulus 0.5 to 65 GHz • Millimeter-wave LO and receiver testing • GPIB automated component and system characterization • Signal simulation where coverage starts at 500 MHz

68295B Characteristics / Specifications

PARAMETER	VALUE
Model	68295B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68295B; Anritsu 68295B
Frequency range	0.5 GHz to 65 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	0 dBm
Leveled output greater than 50 to 65 GHz	-2 dBm
Step attenuator above 40 GHz	not available per datasheet tables
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
Related CW model	68095B
Related sweep model	68195B

PARAMETER	VALUE
Related sweep signal peer	68395B
Related full band from 10 MHz	68297B
Harmonics family typical	-50 to -60 dBc by band
Nonharmonic spurious typical	-60 dBc Notes Power rows from Anritsu 68000B/69000A datasheet 6XX95 tables for 68295B (0.5–65 GHz). Confirm RF connector and Option 11/16 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
Step attenuator above 40 GHz	not available per datasheet tables
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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CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz
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Leveled output greater than 2.2 to 20 GHz: +10 dBm
Leveled output greater than 20 to 40 GHz: +2.5 dBm
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Notes
Power rows from Anritsu 68000B/69000A datasheet 6XX95 tables for 68295B (0.5–65 GHz). Confirm RF connector and Option 11/16 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.