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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68275B Synthesized Signal Generator, 0.01 GHz to 65.0 GHz

Anritsu 68275B Synthesized Signal Generator 0.5 GHz to 50 GHz The Anritsu 68275B is a synthesized signal generator covering 0.5 GHz to 50 GHz in the 682XXB family. It provides CW, sweep, and AM/FM/pulse modulation with banded leveled output and IEEE-488 GPIB control for broadband signal simulation and ATE in the 6XX75 coverage class. The Anritsu 68275B is a synthesized signal generator covering 0.5 GHz to 50 GHz in the 682XXB family. It provides CW, sweep, and AM/FM/pulse modulation with banded leveled output and IEEE-488 GPIB control for broadband signal simulation and ATE in the 6XX75 coverage class.



MODEL

Anritsu 68275B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68275B

LISTING

<https://aumictechlabs.com/products/68275b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu 68275B is a synthesized signal generator delivering broadband RF/microwave signal generation from 0.01 GHz to 65.0 GHz. It combines precise frequency control, low phase noise, and flexible modulation to support demanding RF component characterization, microwave subsystem testing, and communication system validation across commercial and defense applications. Technical Specifications Frequency & Power Frequency range: 0.01 GHz to 65.0 GHz Maximum output power: +17 dBm (guaranteed leveled to 20 GHz) Minimum output power: -120

dBm Leveling accuracy: 0.01 dB steps, leveled to -120 dBm SSB phase noise: -136 dBc/Hz (typical) Spurious signals: Ultra-low levels Sweep & Switching Switching time: < 5 ms for <100 MHz steps; <15 ms +1 ms/GHz or <40 ms maximum (typical) for analog sweep Step sweep: 1 to 10,000 steps, 1 kHz minimum step size (0.1 Hz with Option 11) Dwell time: 1 ms to 99 seconds per step Sweep modes: Analog, step, digital frequency, digital power, and alternate sweep Resolution: Standard 1 kHz; optional 0.1 Hz Modulation Internal: AM, FM, and phase modulation with 7 waveforms; internal pulse generator with swept delay External: FM (locked/unlocked) and AM (log/linear) Optional: User-defined complex modulation

Key Features Precise amplitude leveling across full frequency range Low SSB phase noise for signal purity in demanding measurements Flexible sweep configurations supporting up to 10,000 steps Pulse generation with swept delay for target simulation Multiple modulation formats for complex signal scenarios

Typical Applications RF component design and validation, microwave subsystem testing, communication system characterization, and defense/aerospace signal simulation.

Compatibility & Integration Remote control via SCPI protocol. Frequency accuracy dependent on internal or external 10 MHz time base. Three-wire grounded power connection required for safe operation.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 0.5 GHz to 50 GHz • Synthesized phase-lock with high resolution • Standard 1 kHz resolution; Option 11 for 0.1 Hz • Banded leveled output per 6XX75 tables • Optional Option 15 high power and Option 16 oven • IEEE-488 GPIB remote programming

Applications

- Microwave stimulus across 0.5 GHz to 50 GHz • Modulated receiver and mmWave component testing
- ATE automated GPIB source applications • LO substitution and swept measurements

68275B Characteristics / Specifications

PARAMETER	VALUE
Model	68275B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68275B; Anritsu 68275B
Frequency range	0.5 GHz to 50 GHz
Family	682XXB Synthesized Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz
Leveled output 0.5 to less than 2 GHz	+12 dBm
Leveled output 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	+2.5 dBm
Leveled with step attenuator 0.5 to less than 2 GHz	+10 dBm
Leveled with step attenuator 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 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

PARAMETER	VALUE
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	68075B
Related sweep model	68175B
Related sweep signal	68375B
Related ultra low noise	69175A Notes Power rows from Anritsu 68000B/69000A El Toro datasheet 6XX75 tables for 68275B (0.5–50 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
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
Power consumption	about 400 VA
Harmonics family typical	-50 to -60 dBc
Nonharmonic spurious typical	-60 dBc
Specifications	
PARAMETER	VALUE
Model	68275B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68275B; Anritsu 68275B
Frequency range	0.5 GHz to 50 GHz
Family	682XXB Synthesized Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz
Leveled output 0.5 to less than 2 GHz: +12 dBm	
Leveled output 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: +2.5 dBm	
Leveled with step attenuator 0.5 to less than 2 GHz: +10 dBm	
Leveled with step attenuator 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 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
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
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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	68075B
Related sweep model	68175B
Related sweep signal	68375B
Related ultra low noise	69175A

Notes

Power rows from Anritsu 68000B/69000A El Toro datasheet 6XX75 tables for 68275B (0.5–50 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.