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Data Sheet

August 13, 2026

ANRITSU

Anritsu 68259B Synthesized Signal Generator

Anritsu 68259B Synthesized Signal Generator 10 MHz to 26.5 GHz The Anritsu 68259B is a microprocessor-based synthesized signal generator covering 10 MHz to 26.5 GHz in the 682XXB family. It generates CW, swept, and modulated signals with internal/external AM, FM, and pulse for signal simulation and ATE. Front-panel LCD and IEEE-488 GPIB control all functions except power on/standby. The Anritsu 68259B is a microprocessor-based synthesized signal generator covering 10 MHz to 26.5 GHz in the 682XXB family. It generates CW, swept, and modulated signals with internal/external AM, FM, and pulse for signal simulation and ATE. Front-panel LCD and IEEE-488 GPIB control all functions except power on/standby.



MODEL

Anritsu 68259B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

68259B

LISTING

<https://aumictechlabs.com/products/68259b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 68259B is a synthesized signal generator delivering precise RF signal generation across 10 MHz to 26.5 GHz with 1 Hz resolution. Built for demanding RF component testing and system simulation, it combines low phase noise, wide dynamic range, and stable frequency synthesis with analog modulation and sweep capabilities. Output spans -127 dBm to +10 dBm with ± 1.0 dB accuracy at +10 dBm. Phase noise reaches -100 dBc/Hz at 1 kHz offset (10 GHz carrier). The instrument supports AM and FM modulation AM depth to 100%, FM deviation to 200 kHz -

plus three sweep modes with selectable trigger sources. Fast frequency switching under 100 ms and frequency stability better than 5×10^{-8} per hour enable reliable testing in development and production. Interfaces include Type-N female RF output, GPIB, Ethernet 10/100 Base-T, and USB. Control via Anritsu Signal Generator Control Software or third-party automation tools. Dimensions: 177 mm H × 436 mm W × 416 mm D; 22 kg. Rated 100–240 VAC, 50/60 Hz, 400 VA maximum. Technical Specifications Frequency Range: 10 MHz to 26.5 GHz Frequency Resolution: 1 Hz Output Power Range: -127 dBm to +10 dBm Maximum Output Power: +10 dBm (typical) Output Power Accuracy: ± 1.0 dB (typical) at +10 dBm, 25 GHz Output Impedance: 50 Ohms Phase Noise: -100 dBc/Hz (1 kHz offset, 10 GHz carrier); -110 dBc/Hz (10 kHz offset); -120 dBc/Hz (100 kHz offset) Harmonics: <-30 dBc up to 18 GHz; <-25 dBc above 18 GHz Spurious: <-60 dBc up to 18 GHz; <-50 dBc above 18 GHz Frequency Stability: $< 5 \times 10^{-8}$ per hour (typical) Frequency Switching Speed: <100 ms (typical) Amplitude Flatness: ± 0.5 dB over 1 GHz bandwidth (typical) Key Features AM modulation: 0% to 100% depth FM modulation: 0 Hz to 200 kHz deviation; 500 kHz bandwidth Sweep modes: Frequency, Power, List Sweep time range: 1 ms to 1000 s Trigger sources: Internal, External, Manual RF connector: Type-N female Input voltage: 100–240 VAC, 50/60 Hz Power consumption: 400 VA (maximum) Typical Applications RF component characterization, receiver and transmitter testing, system simulation, and production verification across microwave and mmWave frequencies. Compatibility & Integration GPIB (IEEE 488.2), Ethernet 10/100 Base-T, and USB interfaces enable integration with test automation platforms. Compatible with Anritsu Signal Generator Control Software and standard third-party test software on PC operating systems.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 10 MHz to 26.5 GHz • Full synthesized signal-generator modulation suite • Standard 1 kHz resolution; Option 11 for 0.1 Hz • Banded leveled power per 6XX59 tables • Optional Option 15 high power and Option 16 oven • IEEE-488 GPIB remote programming

Applications

- Signal simulation and LO duty 10 MHz to 26.5 GHz • Modulated receiver and component testing • GPIB automated microwave production test • Broadband coax stimulus through K-band

High power Option 15 greater than 20 to 26.5 GHz: +10 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 Related CW model: 68059B Related sweep model: 68159B Related sweep signal model: 68359B AC power: 90 to 132 or 180 to 264 Vac Power consumption: about 400 VA Notes Power rows from Anritsu 68000B/69000A datasheet 6XX59 tables for 68259B (0.01–26.5 GHz). Confirm Option 15/16 and RF connector on the unit.

68259B Characteristics / Specifications

PARAMETER	VALUE
Model	68259B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68259B; Anritsu 68259B
Frequency range	10 MHz to 26.5 GHz
Family	682XXB Synthesized Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option	0.1 Hz
Leveled output 0.01 to less than 2 GHz	+13 dBm
Leveled output 2 to 20 GHz	+9 dBm
Leveled output greater than 20 to 26.5 GHz	+6 dBm
Leveled with step attenuator 0.01 to less than 2 GHz	+11 dBm
Leveled with step attenuator 2 to 20 GHz	+7 dBm
Leveled with step attenuator greater than 20 to 26.5 GHz	+3.5 dBm
High power Option 15 0.01 to less than 2 GHz	+13 dBm
High power Option 15 2 to 20 GHz	+13 dBm
High power Option 15 greater than 20 to 26.5 GHz	+10 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

PARAMETER	VALUE
Display	Dot matrix LCD
Dimensions	about 5.25 inHx 16.875 inWx 23.5 inDWeight: about 50 lb
Related CW model	68059B
Related sweep model	68159B
Related sweep signal model	68359B
AC power	90 to 132 or 180 to 264 Vac
Power consumption	about 400 VA Notes Power rows from Anritsu 68000B/69000A datasheet 6XX59 tables for 68259B (0.01–26.5 GHz). Confirm Option 15/16 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	
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
Related CW model	68059B
Related sweep model	68159B
Related sweep signal model	68359B
AC power	90 to 132 or 180 to 264 Vac
Power consumption	about 400 VA
Specifications	
PARAMETER	VALUE
Model	68259B
Manufacturer	Anritsu / Wiltron
Instrument Type	Synthesized Signal Generator
Alias	68259B; Anritsu 68259B
Frequency range	10 MHz to 26.5 GHz
Family	682XXB Synthesized Signal Generators
CW frequency resolution standard	1 kHz
CW frequency resolution Option 11	0.1 Hz
Leveled output 0.01 to less than 2 GHz: +13 dBm	
Leveled output 2 to 20 GHz: +9 dBm	
Leveled output greater than 20 to 26.5 GHz: +6 dBm	
Leveled with step attenuator 0.01 to less than 2 GHz: +11 dBm	

Leveled with step attenuator 2 to 20 GHz: +7 dBm
Leveled with step attenuator greater than 20 to 26.5 GHz: +3.5 dBm
High power Option 15 0.01 to less than 2 GHz: +13 dBm
High power Option 15 2 to 20 GHz: +13 dBm
High power Option 15 greater than 20 to 26.5 GHz: +10 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
Related CW model	68059B
Related sweep model	68159B
Related sweep signal model	68359B
AC power	90 to 132 or 180 to 264 Vac
Power consumption	about 400 VA

Notes
Power rows from Anritsu 68000B/69000A datasheet 6XX59 tables for 68259B (0.01-26.5 GHz). Confirm Option 15/16 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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30-day returns
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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.