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**Data Sheet**

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ANRITSU

# Anritsu 68359B Synthesized Sweep/Signal Generator, 0.01 to 26.5 GHz

Anritsu 68359B Synthesized Sweep/Signal Generator 10 MHz to 26.5 GHz The Anritsu 68359B is a synthesized sweep/signal generator covering 0.01 GHz to 26.5 GHz in the 68000B synthesizer family. It combines CW, analog/step sweep, and comprehensive modulation for broadband signal simulation and swept measurements to 26.5 GHz as the 6XX59B sweep/signal member. The Anritsu 68359B is a synthesized sweep/signal generator covering 0.01 GHz to 26.5 GHz in the 68000B synthesizer family. It combines CW, analog/step sweep, and comprehensive modulation for broadband signal simulation and swept measurements to 26.5 GHz as the 6XX59B sweep/signal member.



MODEL

**Anritsu 68359B**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**68359B**

LISTING

<https://aumictechlabs.com/products/68359b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Anritsu 68359B is a synthesized sweep/signal generator delivering precise RF and microwave signal generation across 0.01 to 26.5 GHz. Maximum output power reaches +13 dBm with  $\pm 2$  dB accuracy, making it suitable for telecommunications, aerospace, and RF development applications requiring stable, low-noise signals and fast frequency agility. Technical Specifications Frequency Range: 0.01 GHz to 26.5 GHz Maximum Output Power: +13 dBm Output Accuracy:  $\pm 2$  dB 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; switching time <15 ms +1 ms/GHz or <40 ms maximum (typical) Power Level Flatness (Analog Sweep): 4.0 dB (0.01–0.05 GHz); 2.0 dB (0.05–20 GHz); 4.0 dB (20–26.5 GHz) typical Programmable Frequency Agility: Up to 1000 non-sequential frequencies stored and phase-locked step swept via GPIB control

**Key Features**

**Five Sweep Modes:** Alternate, Analog, Power, Step, and Manual sweep with independent power level control per range

**Modulation Capability:** AM, FM, Phase Modulation (ØM), and Pulse Modulation; internal and user-downloadable complex modulation with 7 selectable waveforms

**Alternate Sweep Mode:** Toggles between two independent frequency ranges with assigned power levels

**User Level Flatness Correction:** Supported for extended accuracy across the frequency band

**Master/Slave Operation:** Supported for multi-instrument synchronization

**Self-Test and Secure Mode:** Built-in diagnostics and secure operational modes included

**Integration & Control GPIB Interface:** Full remote control and communication; supports up to 15 devices per bus (20 meter maximum length); unique addresses 00–30

**Rack Mounting:** Option 1 provides track slides with 90° tilt capability for standard 19-inch installations

**SCPI Programming:** Compatible with 682XXB/683XXB series SCPI Programming Manual (Part No. 10370-10288)

**Typical Applications** Telecommunications testing, aerospace RF characterization, component validation, and manufacturing test automation requiring wideband frequency coverage and precise modulation control.

## Features & description

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From manufacturer datasheet

### Features

• Coverage 0.01 to 26.5 GHz • Analog and phase locked step sweep • Internal/external AM, FM, pulse; optional phase modulation • 68B family excellent phase noise at moderate cost • List sweep with large frequency/power tables • Optional 0.1 Hz resolution and high stability time base • GPIB remote control

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### Applications

• Broadband swept network analysis to 26.5 GHz • AM/FM/pulse modulated signal simulation • ATE microwave stimulus through K-band • Radar and EW receiver testing • CW LO use when modulation and sweep are idle

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### High power Option 15 greater than 20 to 26.5 GHz: +10 dBm

Output power resolution: 0.01 dB Frequency resolution standard: 1 kHz Frequency resolution Option 11: 0.1 Hz CW accuracy: same as internal or external 10 MHz time base Internal time base aging: less than  $2 \times 10^{-8}$ /day Internal time base aging Option 16: less than  $5 \times 10^{-10}$ /day Analog sweep width: 1 MHz to full range Analog sweep time: 30 ms to 99 s Step sweep steps: 1 to 10000 List sweep points: up to 2000 per table Minimum leveled power without attenuator: to -15 dBm (-20 dBm typical) Minimum leveled power with attenuator: to -120 dBm class SSB phase noise: 68B family excellent moderate cost class Remote control: GPIB Dimensions: 133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg RF output connector: TypeKfemale Related CW model: 68059B Related sweep only: 68159B Related signal only: 68259B Related ultra low noise sweep signal: 69359A Notes Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 6XX59 power tables for 68359B (0.01–26.5 GHz). Confirm options and leveled power on the unit.

## 68359B Characteristics / Specifications

| PARAMETER                                                      | VALUE                                         |
|----------------------------------------------------------------|-----------------------------------------------|
| Model                                                          | 68359B                                        |
| Manufacturer                                                   | Anritsu                                       |
| Instrument Type                                                | Synthesized Sweep/Signal Generator            |
| Alias                                                          | 68359B; Anritsu 68359B                        |
| Frequency range                                                | 0.01 GHz to 26.5 GHz                          |
| Family                                                         | 68000B synthesizers                           |
| Leveled power 0.01 to less than 2 GHz                          | +13 dBm                                       |
| Leveled power 2 to 20 GHz                                      | +9 dBm                                        |
| Leveled power greater than 20 to 26.5 GHz                      | +6 dBm                                        |
| Leveled power with step attenuator 0.01 to less than 2 GHz     | +11 dBm                                       |
| Leveled power with step attenuator 2 to 20 GHz                 | +7 dBm                                        |
| Leveled power 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                                       |
| Frequency resolution standard                                  | 1 kHz                                         |
| Frequency resolution Option                                    | 0.1 Hz                                        |
| CW accuracy                                                    | same as internal or external 10 MHz time base |
| Internal time base aging                                       | less than $2 \times 10^{-8}$ /day             |
| Internal time base aging Option                                | less than $5 \times 10^{-10}$ /day            |
| Analog sweep width                                             | 1 MHz to full range                           |

| PARAMETER                                | VALUE                                                                                                                                                                     |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analog sweep time                        | 30 ms to 99 s                                                                                                                                                             |
| Step sweep steps                         | 1 to 10000                                                                                                                                                                |
| List sweep points                        | up to 2000 per table                                                                                                                                                      |
| Minimum leveled power without attenuator | to -15 dBm (-20 dBm typical)                                                                                                                                              |
| Minimum leveled power with attenuator    | to -120 dBm class                                                                                                                                                         |
| SSB phase noise                          | 68B family excellent moderate cost class                                                                                                                                  |
| Remote control                           | GPIB                                                                                                                                                                      |
| Dimensions                               | 133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg                                                                                                                |
| RF output connector                      | TypeKfemale                                                                                                                                                               |
| Related CW model                         | 68059B                                                                                                                                                                    |
| Related sweep only                       | 68159B                                                                                                                                                                    |
| Related signal only                      | 68259B                                                                                                                                                                    |
| Related ultra low noise sweep signal     | 69359A Notes Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 6XX59 power tables for 68359B (0.01–26.5 GHz). Confirm options and leveled power 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                                       |
| Frequency resolution standard            | 1 kHz                                         |
| Frequency resolution Option 11           | 0.1 Hz                                        |
| CW accuracy                              | same as internal or external 10 MHz time base |
| Internal time base aging                 | less than 2 x 10 <sup>-8</sup> /day           |
| Internal time base aging Option 16       | less than 5 x 10 <sup>-10</sup> /day          |
| Analog sweep width                       | 1 MHz to full range                           |
| Analog sweep time                        | 30 ms to 99 s                                 |
| Step sweep steps                         | 1 to 10000                                    |
| List sweep points                        | up to 2000 per table                          |
| Minimum leveled power without attenuator | to -15 dBm (-20 dBm typical)                  |
| Minimum leveled power with attenuator    | to -120 dBm class                             |
| SSB phase noise                          | 68B family excellent moderate cost class      |
| Remote control                           | GPIB                                          |
| Dimensions                               | 133 mm H x 429 mm W x 597 mm D                |
| Mass                                     | less than or equal to 23 kg                   |
| RF output connector                      | Type K female                                 |
| Related CW model                         | 68059B                                        |
| Related sweep only                       | 68159B                                        |
| Related signal only                      | 68259B                                        |
| Related ultra low noise sweep signal     | 69359A                                        |
| Specifications                           |                                               |
| PARAMETER                                | VALUE                                         |
| Model                                    | 68359B                                        |
| Manufacturer                             | Anritsu                                       |

| PARAMETER       | VALUE                              |
|-----------------|------------------------------------|
| Instrument Type | Synthesized Sweep/Signal Generator |
| Alias           | 68359B; Anritsu 68359B             |
| Frequency range | 0.01 GHz to 26.5 GHz               |
| Family          | 68000B synthesizers                |

Leveled power 0.01 to less than 2 GHz: +13 dBm  
 Leveled power 2 to 20 GHz: +9 dBm  
 Leveled power greater than 20 to 26.5 GHz: +6 dBm  
 Leveled power with step attenuator 0.01 to less than 2 GHz: +11 dBm  
 Leveled power with step attenuator 2 to 20 GHz: +7 dBm  
 Leveled power 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                                                    |
| Frequency resolution standard            | 1 kHz                                                      |
| Frequency resolution Option 11           | 0.1 Hz                                                     |
| CW accuracy                              | same as internal or external 10 MHz time base              |
| Internal time base aging                 | less than $2 \times 10^{-8}$ /day                          |
| Internal time base aging Option 16       | less than $5 \times 10^{-10}$ /day                         |
| Analog sweep width                       | 1 MHz to full range                                        |
| Analog sweep time                        | 30 ms to 99 s                                              |
| Step sweep steps                         | 1 to 10000                                                 |
| List sweep points                        | up to 2000 per table                                       |
| Minimum leveled power without attenuator | to -15 dBm (-20 dBm typical)                               |
| Minimum leveled power with attenuator    | to -120 dBm class                                          |
| SSB phase noise                          | 68B family excellent moderate cost class                   |
| Remote control                           | GPIO                                                       |
| Dimensions                               | 133 mmHx 429 mmWx 597 mmDMass: less than or equal to 23 kg |
| RF output connector                      | TypeKfemale                                                |
| Related CW model                         | 68059B                                                     |
| Related sweep only                       | 68159B                                                     |
| Related signal only                      | 68259B                                                     |
| Related ultra low noise sweep signal     | 69359A                                                     |

#### Notes

Specs from Anritsu/Wiltron 68B/69A Series frequency charts and 6XX59 power tables for 68359B (0.01–26.5 GHz).  
Confirm options and leveled power 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](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
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.