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**Data Sheet**

August 13, 2026

ANRITSU

# Anritsu 68255B Synthesized Signal Generator, 0.5 to 26.5 GHz

Anritsu 68255B Synthesized Signal Generator 0.5 GHz to 26.5 GHz The Anritsu 68255B is a synthesized signal generator covering 0.5 GHz 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 in the 6XX55 coverage class. The Anritsu 68255B is a synthesized signal generator covering 0.5 GHz 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 in the 6XX55 coverage class.



MODEL

**Anritsu 68255B**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**68255B**

LISTING

<https://aumictechlabs.com/products/68255b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## This unit

The Anritsu 68255B is a synthesized signal generator delivering precision RF signal generation across 0.5 to 26.5 GHz. Built for demanding test environments, it combines low phase noise, minimal harmonic distortion, and flexible modulation to support advanced R&D, production testing, and system integration tasks. With 1 Hz frequency resolution and output spanning -120 dBm to +13 dBm, the instrument meets exacting requirements for signal purity and measurement accuracy. Technical Specifications RF Performance Frequency range: 0.5 to 26.5 GHz Frequency

resolution: 1 Hz Output power range: -120 dBm to +13 dBm (typical) Output level accuracy:  $\pm 0.5$  dB typical Output impedance: 50 Ohms Signal Purity Phase noise:  $< -100$  dBc/Hz @ 10 kHz offset,  $< -110$  dBc/Hz @ 100 kHz offset,  $< -125$  dBc/Hz @ 1 MHz offset (all @ 10 GHz carrier) Harmonic distortion:  $< -40$  dBc typical at +10 dBm output Spurious outputs: 70 dB on/off ratio,  $< 10$  ns minimum width, up to 10 MHz PRF Digital modulation (optional): QPSK, 8PSK, QAM (to 256-QAM), FSK Sweep & Control Frequency sweep modes: List, Step, Logarithmic, Linear (adjustable sweep time) Power sweep modes: Step, Linear (adjustable sweep time) Remote control: GPIB (IEEE 488.2), Ethernet (LAN) SCPI command set supported

**Key Features** 1 Hz resolution enables precise frequency setting across the entire band Phase noise performance supports sensitive receiver testing and system characterization Pulse generation with nanosecond timing resolution for radar and pulsed-RF applications Multi-format digital modulation for modern communication standards Programmable sweep functions accelerate automated test sequences

**Typical Applications** Component and subsystem characterization in RF/microwave labs Production test of amplifiers, filters, and integrated RF circuits Receiver sensitivity and selectivity measurements Radar and pulsed-RF system development Modulation and demodulation validation

**Compatibility & Integration** Standard 19-inch rack configuration. GPIB and Ethernet control enable integration into automated test systems. 100–240 VAC, 50/60 Hz operation. Operating temperature: 0°C to 40°C.

## Features & description

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From manufacturer datasheet

### Features

- Frequency coverage 0.5 GHz to 26.5 GHz • Full synthesized signal-generator modulation suite • Standard 1 kHz resolution; Option 11 for 0.1 Hz • Banded leveled power per 6XX55 tables • Optional Option 15 high power and Option 16 oven • IEEE-488 GPIB remote programming

### Applications

- Signal simulation and LO duty 0.5 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  $2 \times 10^{-8}$ /day Internal time base aging Option 16: less than  $5 \times 10^{-10}$ /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 Harmonics family typical: -50 to -60 dBc Nonharmonic spurious typical: -60 dBc Related CW model: 68055B Related sweep model: 68155B Related sweep signal model: 68355B Related ultra low noise: 69155A Notes Power rows from Anritsu 68000B/69000A datasheet 6XX55 tables for 68255B (0.5–26.5 GHz). Confirm Option 15/16 and RF connector on the unit.

## 68255B Characteristics / Specifications

| PARAMETER                                                | VALUE                                |
|----------------------------------------------------------|--------------------------------------|
| Model                                                    | 68255B                               |
| Manufacturer                                             | Anritsu / Wiltron                    |
| Instrument Type                                          | Synthesized Signal Generator         |
| Alias                                                    | 68255B; Anritsu 68255B               |
| Frequency range                                          | 0.5 GHz to 26.5 GHz                  |
| Family                                                   | 682XXB Synthesized Signal Generators |
| CW frequency resolution standard                         | 1 kHz                                |
| CW frequency resolution Option                           | 0.1 Hz                               |
| Leveled output 0.5 to 2.2 GHz                            | +13 dBm                              |
| Leveled output greater than 2.2 to 20 GHz                | +9 dBm                               |
| Leveled output greater than 20 to 26.5 GHz               | +6 dBm                               |
| Leveled with step attenuator 0.5 to 2.2 GHz              | +11 dBm                              |
| Leveled with step attenuator greater than 2.2 to 20 GHz  | +7 dBm                               |
| Leveled with step attenuator greater than 20 to 26.5 GHz | +3.5 dBm                             |
| High power Option 15 0.5 to 2.2 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 $2 \times 10^{-8}$ /day    |
| Internal time base aging Option                          | less than $5 \times 10^{-10}$ /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                                                                                                 |
| 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                                                                                                                                                 |
| Related CW model             | 68055B                                                                                                                                                  |
| Related sweep model          | 68155B                                                                                                                                                  |
| Related sweep signal model   | 68355B                                                                                                                                                  |
| Related ultra low noise      | 69155A Notes Power rows from Anritsu 68000B/69000A datasheet 6XX55 tables for 68255B (0.5–26.5 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 <sup>-8</sup> /day       |
| Internal time base aging Option 16 | less than 5 x 10 <sup>-10</sup> /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                                   |
| Related CW model                   | 68055B                                    |
| Related sweep model                | 68155B                                    |
| Related sweep signal model         | 68355B                                    |
| Related ultra low noise            | 69155A                                    |
| Specifications                     |                                           |
| PARAMETER                          | VALUE                                     |
| Model                              | 68255B                                    |
| Manufacturer                       | Anritsu / Wiltron                         |
| Instrument Type                    | Synthesized Signal Generator              |
| Alias                              | 68255B; Anritsu 68255B                    |
| Frequency range                    | 0.5 GHz to 26.5 GHz                       |
| Family                             | 682XXB Synthesized Signal Generators      |
| CW frequency resolution standard   | 1 kHz                                     |

| PARAMETER                         | VALUE   |
|-----------------------------------|---------|
| CW frequency resolution Option 11 | 0.1 Hz  |
| Leveled output 0.5 to 2.2 GHz     | +13 dBm |

Leveled output greater than 2.2 to 20 GHz: +9 dBm  
 Leveled output greater than 20 to 26.5 GHz: +6 dBm  
 Leveled with step attenuator 0.5 to 2.2 GHz: +11 dBm  
 Leveled with step attenuator greater than 2.2 to 20 GHz: +7 dBm  
 Leveled with step attenuator greater than 20 to 26.5 GHz: +3.5 dBm  
 High power Option 15 0.5 to 2.2 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 $2 \times 10^{-8}$ /day                       |
| Internal time base aging Option 16 | less than $5 \times 10^{-10}$ /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                                            |
| Harmonics family typical           | -50 to -60 dBc                                          |
| Nonharmonic spurious typical       | -60 dBc                                                 |
| Related CW model                   | 68055B                                                  |
| Related sweep model                | 68155B                                                  |
| Related sweep signal model         | 68355B                                                  |
| Related ultra low noise            | 69155A                                                  |

Notes  
 Power rows from Anritsu 68000B/69000A datasheet 6XX55 tables for 68255B (0.5–26.5 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](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.