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**Data Sheet**

August 14, 2026

ANRITSU

# Anritsu MG3693C Microwave Signal Generator 30GHz

Anritsu MG3693C RF Microwave Signal Generator 2 to 30 GHz The Anritsu MG3693C is the 30 GHz member of the MG3690C synthesized signal generator series. OEM operation manuals and datasheets list standard coverage from 2 GHz to 30 GHz with Option 4/5 extending the low end, 0.01 Hz resolution, and shared MG3690C modulation and interface features.

Microwave component and system stimulus to 30 GHz, automated test LO sources, and general-purpose synthesized RF generation. Optional coverage down to 0.01 GHz class with Option 4/5 The Anritsu MG3693C is the 30 GHz member of the MG3690C synthesized signal generator series. OEM operation manuals and datasheets list standard coverage from 2 GHz to 30 GHz with Option 4/5 extending the low end, 0.01 Hz resolution, and shared MG3690C modulation and interface features. Microwave component and system stimulus to 30 GHz, automated test LO sources, and general-purpose synthesized RF generation. Optional coverage down to 0.01 GHz class with Option 4/5 Optional high stability time base Option 16



MODEL

**Anritsu MG3693C**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**MG3693C**

LISTING

<https://aumictechlabs.com/products/mg3693c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

**This unit**

The Anritsu MG3693C is a synthesized signal generator designed for demanding RF and microwave test and measurement applications. It has extensive frequency coverage, precise amplitude control, and high signal purity, making it suitable for a wide range of R&D, manufacturing, and depot repair scenarios.

**Technical Specifications**

**Frequency Coverage:** 0.1 Hz to 31.8 GHz in a single coaxial output. Extendable to 500 GHz or beyond with external multipliers. Option 22 provides audio frequency coverage from 0.1 Hz to 10 MHz. Frequency resolution down to 0.01 Hz for sweep functions. Frequency resolution of 0.02 Hz for Option 22 below 10 MHz.

**Output Power:** Standard output power specifications are available, with options for higher output. Option 15 provides high power RF components to increase output power levels. With Option 15 and Option 2, output power can range from -120 dBm to +25 dBm. High power output is available, eliminating the need for external amplification. Output power is typically derated by 2 dB when Option 22 is installed.

**Signal Purity:** Industry-best phase noise performance is a key characteristic. Offers three levels of SSB phase noise performance: Standard, Ultra low phase noise (Option 3), and Premium phase noise (Option 3X). Phase noise at 10 GHz with Option 3 can be as low as -115 dBc/Hz at a 100 kHz offset. Spectral purity is a design focus.

**Modulation Capabilities:** Full suite of modulation capabilities for complex signal simulations. Supports AM, FM, Pulse, Scan, Phase, I/Q, Analog, and Wideband FM. Option 28 offers AM, FM, FM, IM modulation. Internal and external AM, FM, Phase, and Pulse modulation are supported for analog signal emulation. Option 27 provides a built-in function and pulse generator. For IQ modulation, an IF input option allows easy up-conversion of an externally IQ-modulated RF signal. Option 20 adds an internal Scan modulator for simulating high-depth amplitude modulated signals. No modulation is available in the 0.1 Hz to 10 MHz band when Option 22 is installed.

**Switching Speed:** Fast switching speed of 5 ms (typical) reduces test time.

**Sweep Functions:** Linear and Logarithmic sweep modes are user-selectable. Step size in log sweep increases logarithmically with frequency. Variable number of steps from 1 to 10,000. Step size can range from 0.01 Hz to the full frequency range of the instrument. Dwell time per step is variable from 1 ms to 99 seconds. Fixed rate sweep allows setting the total sweep time, including lock time, from 20 ms to 99 seconds. Phase-locked control ensures precise frequency control for doubled frequencies. Every frequency step in the sweep range is phase-locked.

**Interfaces:** Intuitive front panel controls for easy operation. Remote control via GPIB (IEEE-488 interface bus) or Ethernet connectivity. All instrument functions, settings, and operating modes are controllable via GPIB commands (Native, SCPI).

**Time Base:** Internal time base can be calibrated to match an external 10 MHz reference. External 10 MHz reference input accepts signals with  $\pm 50$  Hz tolerance. Option 16 adds an ovenized, 10 MHz crystal oscillator for high-stability time base. Internal time base stability is  $< 2 \times 10^{-9}$ /day, or  $< 5 \times 10^{-10}$ /day with Option 16.

**Physical and Environmental:**

**Dimensions:** 429 × 133 × 450 mm. **Weight:** 18 kg. **Operating Temperature Range:** 0 °C to +50 °C. **Storage Temperature Range:** -40 °C to +75 °C. **Relative Humidity:** 5% to 95% at 40 °C. **Altitude:** 4,600 meters. **EMI:** Meets emission and immunity requirements of EN61326: 1998 and EN61000-4-11: 1994. **Vibration:** Random, 5 Hz - 500 Hz, 0.015-0.0039g<sup>2</sup>/Hz PSD; Sinusoidal, 5 Hz - 55 Hz, 0.33 mm displacement.

**Compatibility:** Preserves full backward compatibility with Anritsu MG3690A/B series and previous 68C/69B series of RF and microwave signal generators. Drivers are available for MG3690C Series, MG3690B Series, and older models.

**Why Choose Aumictech for Anritsu MG3693C?** At Aumictech, we specialize in supplying RF and microwave test equipment. Whether

## Features & description

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From manufacturer datasheet

### High Power Option: Option 15

LF Coverage Options: Option 4 or 5 Notes From Anritsu MG369xC Series operation manual Table 1-1 and MG3690C technical data sheet family specifications for MG3693C. Confirm option configuration for low-frequency start and high-power bands.

## MG3693C Characteristics / Specifications

| PARAMETER                                   | VALUE                                                                             |
|---------------------------------------------|-----------------------------------------------------------------------------------|
| Model                                       | MG3693C                                                                           |
| Frequency Range Standard                    | 2 GHz to 30 GHz                                                                   |
| Frequency Range With Option 4 Or            | 0.01 GHz to 30 GHz class                                                          |
| Frequency Resolution                        | 0.01 Hz                                                                           |
| Series Family                               | Anritsu MG3690C                                                                   |
| Minimum Leveled Power With Attenuator Class | minus 115 dBm class for MG3692C/MG3694C attenuator specs applied per family sheet |
| Minimum Settable Power With Attenuator      | minus 120 dBm                                                                     |
| Minimum Settable Power Without Attenuator   | minus 20 dBm                                                                      |
| Level Accuracy Less Than 40 GHz Class       | plus or minus 1 dB                                                                |
| SSB Phase Noise Typ 10 GHz 10 kHz Offset    | minus 119 dBc/Hz                                                                  |
| Frequency Switching List Mode Min           | 2 ms                                                                              |
| Reference Output                            | 10 MHz 1 V pk-pk into 50 Ohm                                                      |
| Internal Time Base Stability Option         | less than 5e-10 per day                                                           |
| Harmonics 2 To 20 GHz Class                 | minus 60 dBc                                                                      |
| Nonharmonics 2 To 20 GHz Class              | minus 60 dBc                                                                      |
| Remote Interfaces                           | GPIO and Ethernet                                                                 |
| Modulation Suite                            | AM FM phase pulse                                                                 |
| Power Setting Resolution Class              | 0.01 dB                                                                           |
| Rack Mount Options                          | 1A with slides 1B without slides                                                  |
| Form Factor                                 | programmable RF/microwave signal generator                                        |
| Output Connector Class                      | coaxial per MG3690C frequency band tables                                         |
| Analog Sweep Option                         | Option 6                                                                          |
| Step Attenuator Options                     | mechanical or electronic per datasheet                                            |
| High Power Option                           | Option 15                                                                         |

| PARAMETER           | VALUE         |
|---------------------|---------------|
| LF Coverage Options | Option 4 or 5 |

# MG3693C Specifications

| PARAMETER                                                | VALUE                                                                                                                        |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Applications                                             | Microwave component and system stimulus to 30 GHz, automated test LO sources, and general-purpose synthesized RF generation. |
| Key Features                                             | 2 GHz to 30 GHz standard                                                                                                     |
| Optional coverage down to 0.01 GHz class with Option 4/5 | 0.01 Hz frequency resolution                                                                                                 |
| Technical Specifications                                 | Model: MG3693C                                                                                                               |

# 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                                                                             |
| Model                                                      | MG3693C                                                                           |
| Frequency Range Standard                                   | 2 GHz to 30 GHz                                                                   |
| Frequency Range With Option 4 Or 5                         | 0.01 GHz to 30 GHz class                                                          |
| Frequency Resolution                                       | 0.01 Hz                                                                           |
| Series Family                                              | Anritsu MG3690C                                                                   |
| Minimum Levelled Power With Attenuator Class               | minus 115 dBm class for MG3692C/MG3694C attenuator specs applied per family sheet |
| Minimum Settable Power With Attenuator                     | minus 120 dBm                                                                     |
| Minimum Settable Power Without Attenuator                  | minus 20 dBm                                                                      |
| Level Accuracy Less Than 40 GHz Class                      | plus or minus 1 dB                                                                |
| SSB Phase Noise Typ 10 GHz 10 kHz Offset: minus 119 dBc/Hz |                                                                                   |
| Specifications                                             |                                                                                   |
| PARAMETER                                                  | VALUE                                                                             |
| Frequency Switching List Mode Min                          | 2 ms                                                                              |
| Reference Output                                           | 10 MHz 1 V pk-pk into 50 Ohm                                                      |
| Internal Time Base Stability Option 16                     | less than 5e-10 per day                                                           |
| Harmonics 2 To 20 GHz Class                                | minus 60 dBc                                                                      |
| Nonharmonics 2 To 20 GHz Class                             | minus 60 dBc                                                                      |
| Remote Interfaces                                          | GPIO and Ethernet                                                                 |
| Modulation Suite                                           | AM FM phase pulse                                                                 |
| Power Setting Resolution Class                             | 0.01 dB                                                                           |
| Rack Mount Options                                         | 1A with slides 1B without slides                                                  |
| Form Factor                                                | programmable RF/microwave signal generator                                        |
| Specifications                                             |                                                                                   |

| PARAMETER               | VALUE                                     |
|-------------------------|-------------------------------------------|
| Output Connector Class  | coaxial per MG3690C frequency band tables |
| Analog Sweep Option     | Option 6                                  |
| Step Attenuator Options | mechanical or electronic per datasheet    |
| High Power Option       | Option 15                                 |
| LF Coverage Options     | Option 4 or 5                             |

Notes

From Anritsu MG369xC Series operation manual Table 1-1 and MG3690C technical data sheet family specifications for MG3693C. Confirm option configuration for low-frequency start and high-power bands.

### 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.