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Data Sheet

August 13, 2026

ANRITSU

Anritsu MG3695B Synthesized Signal Generator, 0.1Hz to 65GHz

Anritsu MG3695B Synthesized Signal Generator 2 to 50 GHz The Anritsu MG3695B is an RF/microwave synthesized signal generator in the MG3690B Series with standard coverage from 2 GHz to 50 GHz on a V-female output. Optional digital or analog downconversion extends coverage to 10 MHz, and Option 22 DDS extends to 0.1 Hz. It provides fine frequency resolution, leveled output, excellent spectral purity, optional ultra-low phase noise, and AM/FM/phase/pulse modulation packages for dual RF/microwave bench and ATE use through 50 GHz. The Anritsu MG3695B is an RF/microwave synthesized signal generator in the MG3690B Series with standard coverage from 2 GHz to 50 GHz on a V-female output. Optional digital or analog downconversion extends coverage to 10 MHz, and Option 22 DDS extends to 0.1 Hz. It provides fine frequency resolution, leveled output, excellent spectral purity, optional ultra-low phase noise, and AM/FM/phase/pulse modulation packages for dual RF/microwave bench and ATE use through 50 GHz.



MODEL

Anritsu MG3695B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MG3695B

LISTING

<https://aumictechlabs.com/products/mg3695b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MG3695B is a synthesized signal generator delivering precise, stable RF and microwave signals across an exceptionally broad frequency spectrum. Built for research, development, and production testing in aerospace, defense, telecommunications, and high-speed digital communications, the instrument combines wide frequency coverage, superior spectral purity, and configurable output power in a single platform. Its modular architecture supports optional frequency extensions and high-power configurations, enabling integration into automated test stations while adapting to evolving measurement requirements.

Technical Specifications

Frequency Performance
Frequency range: 2 GHz to 50 GHz (standard); extendable to 67 GHz
Optional low-frequency coverage: 0.1 Hz to 10 MHz, or 10 MHz to 2.2 GHz
Frequency resolution: 0.01 Hz standard; 10.0 mHz available
Frequency accuracy maintained across wide temperature range with 30-minute warm-up from standby
Output Power
Standard maximum: +17 dBm at 20 GHz
Filtered output: +19 dBm typical at 20 GHz
High Power Option 15: +25 dBm to 10 GHz, +23 dBm at 20 GHz, +19 dBm to 40 GHz, +13 dBm to 50 GHz, +3 dBm to 65 GHz
Minimum leveled output: -95 dBm with attenuator; -120 dBm achievable in 0.01 dB steps
Output units selectable as dBm or mV
Spectral Purity
Ultra-low phase noise (Option 3): -110 dBc/Hz typical at 1 kHz offset, 10 GHz carrier
Performance improvement of 30–50 dB over comparable synthesizers from 10 MHz to 2.2 GHz with Option 4 Digital Down Converter

Key Features

- Configurable frequency options supporting applications from DC to mmWave with external multipliers
- High-stability oscillator with extended warm-up specifications for critical measurements
- Selectable output format and precision power leveling
- Optional phase-noise reduction for narrowband source applications

Typical Applications

- Component and subsystem characterization in RF/microwave development
- Production acceptance testing for communication and radar systems
- Frequency response and intermodulation measurements

Compatibility & Integration

Modular option structure enables seamless ATE integration and future expansion without hardware replacement.

Features & description

From manufacturer datasheet

Features

- Base frequency coverage 2 to 50 GHz, V(f) output

Applications

- Microwave CW and modulated stimulus 2 to 50 GHz

MG3695B Characteristics / Specifications

PARAMETER	VALUE
Model	MG3695B
Manufacturer	Anritsu
Instrument Type	RF/Microwave Synthesized Signal Generator
Alias	MG3695B; Anritsu MG3695B
Series	MG3690B
Frequency range standard	2 GHz to 50 GHz
Frequency Option	10 MHz to 2.2 GHz
RF output connector standard	V female
Leveled output power STD 2 to 20 GHz	+10.0 dBm
Leveled output power STD greater than 20 to 50 GHz	+3.0 dBm
Leveled output with step attenuator STD 2 to 20 GHz	+8.0 dBm
Leveled output with step attenuator STD greater than 20 to 50 GHz	0.0 dBm
Leveled output with Option 4 or 5 below 2 GHz	+12.0 dBm
Leveled output with Option 4 or 5 and step attenuator below 2 GHz	+10.0 dBm
Output power resolution	0.01 dB or 0.001 mV
Frequency resolution typical	0.01 Hz
Frequency resolution Option 22 below 10 MHz	0.02 Hz
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-9} /day
Internal time base aging Option	less than 5×10^{-10} /day
Switching time typical max	less than 40 ms to within 1 kHz

PARAMETER	VALUE
Harmonics greater than 2 to 20 GHz standard	less than -60 dBc
Harmonics greater than 40 to 50 GHz	less than -40 dBc
Nonharmonic spurious greater than 2 to 65 GHz	less than -60 dBc
Minimum leveled power without attenuator class	to -5 dBm (-10 dBm typical)
Minimum leveled power with attenuator class	to -95 dBm
Weight	18 kg maximum
DimensionsHxWxD	133 mm x 429 mm x 450 mm
Remote control	GPIB
Related lower band model	MG3694B 2 to 40 GHz
Related higher band model	MG3696B 2 to 67 GHz
RelatedArevision	MG3695A Notes Specs from Anritsu MG3690B Series technical data sheet for MG3695B (2–50 GHz). Confirm installed options (3/4/5/15/16/22/attenuator/modulation), exact max leveled power on the calibration label, andVconnector condition 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
Model	MG3695B
Manufacturer	Anritsu
Instrument Type	RF/Microwave Synthesized Signal Generator
Specifications	
PARAMETER	VALUE
Alias	MG3695B; Anritsu MG3695B
Series	MG3690B
Frequency range standard	2 GHz to 50 GHz
Specifications	
PARAMETER	VALUE
Frequency Option 5	10 MHz to 2 GHz
Frequency Option 4	10 MHz to 2.2 GHz
Frequency Option 22	0.1 Hz to 10 MHz
RF output connector standard: V female	
Leveled output power STD 2 to 20 GHz: +10.0 dBm	
Leveled output power STD greater than 20 to 50 GHz: +3.0 dBm	
Leveled output with step attenuator STD 2 to 20 GHz: +8.0 dBm	
Leveled output with step attenuator STD greater than 20 to 50 GHz: 0.0 dBm	
Leveled output with Option 4 or 5 below 2 GHz: +12.0 dBm	
Leveled output with Option 4 or 5 and step attenuator below 2 GHz: +10.0 dBm	
Specifications	
PARAMETER	VALUE
Output power resolution	0.01 dB or 0.001 mV
Frequency resolution typical	0.01 Hz
Frequency resolution Option 22 below 10 MHz	0.02 Hz

Specifications

PARAMETER	VALUE
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-9} /day
Internal time base aging Option 16	less than 5×10^{-10} /day

Switching time typical max: less than 40 ms to within 1 kHz

Harmonics greater than 2 to 20 GHz standard: less than -60 dBc

Harmonics greater than 40 to 50 GHz: less than -40 dBc

Nonharmonic spurious greater than 2 to 65 GHz: less than -60 dBc

Specifications

PARAMETER	VALUE
Minimum leveled power without attenuator class	to -5 dBm (-10 dBm typical)
Minimum leveled power with attenuator class	to -95 dBm
Weight	18 kg maximum

Specifications

PARAMETER	VALUE
DimensionsHxWxD	133 mm x 429 mm x 450 mm
Remote control	GPIB
Related lower band model	MG3694B 2 to 40 GHz

Related higher band model: MG3696B 2 to 67 GHz

RelatedArevision: MG3695A

Notes

Specs from Anritsu MG3690B Series technical data sheet for MG3695B (2-50 GHz). Confirm installed options (3/4/5/15/16/22/attenuator/modulation), exact max leveled power on the calibration label, andVconnector condition 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 ·
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.