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Data Sheet
August 13, 2026

ANRITSU

Anritsu MG3695A RF/Microwave Signal Generator, 2GHz to 50 GHz

Anritsu MG3695A Synthesized Signal Generator 2 to 50 GHz The Anritsu MG3695A is an RF/microwave synthesized signal generator in the MG3690A Series with standard coverage from 2 GHz to 50 GHz onaVfemale 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 MG3695A is an RF/microwave synthesized signal generator in the MG3690A Series with standard coverage from 2 GHz to 50 GHz onaVfemale 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 MG3695A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **MG3695A**	LISTING **https://aumictechlabs.com/products/mg3695a-2/**

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Anritsu MG3695A is an RF/microwave signal generator delivering continuous frequency coverage from 2 GHz to 50 GHz for demanding aerospace, defense, and wireless communication applications. It combines high output power with excellent phase noise performance, offering multiple modulation types and flexible sweep capabilities. The instrument operates via front-panel control or remote IEEE-488 GPIB interface, with optional frequency extensions and customizable waveform generation.Technical Specifications Frequency Coverage Base range: 2 GHz to 50 GHz Optional down-converter/DDS extension: 0.1 Hz Optional coverage (Option 4): 10 MHz to 2.2 GHz Optional coverage (Option 5): 10 MHz to 2 GHz Optional coverage (Option 22): 0.1 Hz to 10 MHz Frequency resolution (step sweep): 0.01 Hz Output Power Standard: 13 dBm at 20 GHz Optional enhancement: 17 dBm at 20 GHz; 14 dBm at 40 GHz High-power options: +26 dBm at 20 GHz, +21 dBm at 40 GHz, +16 dBm at 50 GHz With electronic attenuator (Option 15): down to -140 dBm Phase Noise Optional ultra-low phase noise available above 2 GHz With digital down-converter: 2 GHz to ≤20 GHz: 20 GHz to ≤40 GHz: 40 GHz to ≤50 GHz: <-40 dBcKey Features Modulation types: amplitude, frequency, phase, and pulse Internal or external modulation drive User-defined waveforms via software package and Option 10 IQ modulation support through IF input option Sweep modes: discrete CW, step, analog ramp, list frequency, and power sweep Sweep triggering with auto-trigger capability Phase offset adjustment in 0.1-degree incrementsTypical Applications Aerospace and defense systems testing, wireless communication component evaluation, microwave device characterization, and precision RF signal sourcing.Compatibility & Integration IEEE-488 GPIB remote control; optional user-defined modulation software; IF input option for external IQ-modulated signal up-conversion.

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

MG3695A Characteristics / Specifications

PARAMETER	VALUE
Model	MG3695A
Manufacturer	Anritsu
Instrument Type	RF/Microwave Synthesized Signal Generator
Alias	MG3695A; Anritsu MG3695A
Series	MG3690A
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 5 at or below 2 GHz	+12.0 dBm
Leveled output with Option 5 and step attenuator at or 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 -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator class	to -105 dBm
Weight	18 kg maximum
DimensionsHxWxD	133 mm x 429 mm x 450 mm
Remote control	GPIB
Related lower band model	MG3694A 2 to 40 GHz
Related higher band model	MG3696A 2 to 65 GHz Notes Specs from Anritsu MG3690A Series technical data sheet for MG3695A (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	MG3695A
Manufacturer	Anritsu
Instrument Type	RF/Microwave Synthesized Signal Generator

Specifications

PARAMETER	VALUE
Alias	MG3695A; Anritsu MG3695A
Series	MG3690A
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 5 at or below 2 GHz: +12.0 dBm

Leveled output with Option 5 and step attenuator at or 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 x 10^-9/day
Internal time base aging Option 16	less than 5 x 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 -15 dBm (-20 dBm typical)
Minimum leveled power with attenuator class	to -105 dBm
Weight	18 kg maximum

Specifications

PARAMETER	VALUE
DimensionsHxWxD	133 mm x 429 mm x 450 mm
Remote control	GPIB
Related lower band model	MG3694A 2 to 40 GHz

Related higher band model: MG3696A 2 to 65 GHz

Notes

Specs from Anritsu MG3690A Series technical data sheet for MG3695A (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

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