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Data Sheet

August 13, 2026

ANRITSU

Anritsu MG3694B Synthesized Signal Generator, 40GHz

Anritsu MG3694B Synthesized Signal Generator 2 to 40 GHz The Anritsu MG3694B is an RF/microwave synthesized signal generator in the MG3690B Series with standard coverage from 2 GHz to 40 GHz on a K-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 40 GHz. The Anritsu MG3694B is an RF/microwave synthesized signal generator in the MG3690B Series with standard coverage from 2 GHz to 40 GHz on a K-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 40 GHz.



MODEL

Anritsu MG3694B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MG3694B

LISTING

<https://aumictechlabs.com/products/mg3694b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MG3694B is a synthesized signal generator delivering 2 GHz to 40 GHz frequency coverage with 0.01 Hz resolution. Purpose-built for RF and microwave R&D, manufacturing, and depot repair, the instrument combines broad frequency range, high spectral purity, and exceptional stability in a single platform. Every frequency step within sweep range is phase-locked, enabling precise characterization of complex high-frequency systems.

Technical Specifications

Frequency & Resolution Frequency range: 2 GHz to 40 GHz Frequency resolution: 0.01 Hz Phase-locked step sweep across full range with independently selectable sweep width from 0.01 Hz to maximum Typical switching speed: 5 ms per point Conditioned sweep step time: 5 ms + 1 ms/GHz (typical: 7 ms + 1 ms/GHz) Output Power Leveled output power: -95 dBm minimum (with attenuator) Standard output power: +15.0 dBm (≤ 10 GHz); +12.0 dBm (>10–20 GHz); +6.0 dBm (>20–40 GHz) High power options available: typical +26 dBm at 20 GHz, +21 dBm at 40 GHz, +16 dBm at 50 GHz Option 15B delivers $\geq +16$ dB high power output Option 15X typical performance: +19 dBm at 20 GHz Spectral Purity Phase noise: -94 dBc/Hz at 1 kHz offset (guaranteed, 40 GHz); -116 dBc/Hz at 1 GHz, 10 kHz offset Ultra Low Phase Noise (Option 3) and Low Phase Noise (Option 30) available Frequency Extension Options Option 22: extends to 0.1 Hz via Direct Digital Synthesis; CW and Step Sweep only; 2 dB output power degradation Option 4: extends to 10 MHz via Digital Down-Converter with superior phase noise below 500 MHz; RF coverage to 2.2 GHz Option 5: extends to 10 MHz via heterodyne mixing; maintains analog performance

Key Features Phase-locked operation across all frequency steps Optional analog ramp sweep for faster measurements Modulation-capable architecture

Typical Applications RF and microwave component characterization, subsystem validation, manufacturing test, and field repair of high-frequency systems from 2 GHz to 40 GHz.

Features & description

From manufacturer datasheet

Features

- Base frequency coverage 2 to 40 GHz, K(f) output
- Frequency resolution 0.01 Hz class (0.02 Hz below 10 MHz with Option 22)
- Optional ultra low phase noise Option 3 and digital downconverter Option 4
- Optional AM/FM/phase/pulse modulation suites (Opt 28B class)
- Optional mechanical step attenuator
- Analog, step, and list frequency sweeps plus CW power sweep
- High power Option 15 available where listed for MG3690B
- MG3690B platform successor to MG3694A coverage class

Applications

- Microwave CW and modulated stimulus 2 to 40 GHz
- Dual RF/microwave coverage with Option 4/5/22 extensions
- Receiver, component, and system characterization to 40 GHz
- Low phase noise LO and synthesizer substitution
- ATE sources with GPIB automation
- Optional mmWave multiplier drive for higher bands

MG3694B Characteristics / Specifications

PARAMETER	VALUE
Model	MG3694B
Manufacturer	Anritsu
Instrument Type	RF/Microwave Synthesized Signal Generator
Alias	MG3694B; Anritsu MG3694B
Series	MG3690B
Frequency range standard	2 GHz to 40 GHz
Frequency Option	10 MHz to 2.2 GHz
RF output connector standard	K female
Leveled output power STD 2 to 10 GHz	+15.0 dBm
Leveled output power STD greater than 10 to 20 GHz	+12.0 dBm
Leveled output power STD greater than 20 to 40 GHz	+6.0 dBm
Leveled output with step attenuator STD 2 to 10 GHz	+14.0 dBm
Leveled output with step attenuator STD greater than 10 to 20 GHz	+10.0 dBm
Leveled output with step attenuator STD greater than 20 to 40 GHz	+3.0 dBm
Leveled output with Option 4 or 5 below 2 GHz	+15.0 dBm
Leveled output with Option 4 or 5 and step attenuator below 2 GHz	+14.0 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

PARAMETER	VALUE
Internal time base aging Option	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 20 to 40 GHz	less than -40 dBc
Nonharmonic spurious greater than 2 to 67 GHz	less than -60 dBc
Minimum leveled power without attenuator class	to -5 dBm (-10 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	MG3693B 2 to 30 GHz
Related higher band model	MG3695B 2 to 50 GHz
RelatedArevision	MG3694A Notes Specs from Anritsu MG3690B Series technical data sheet for MG3694B (2–40 GHz). Confirm installed options (3/4/5/15/16/22/attenuator/modulation), exact max leveled power on the calibration label, and connector 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	MG3694B
Manufacturer	Anritsu
Instrument Type	RF/Microwave Synthesized Signal Generator
Alias	MG3694B; Anritsu MG3694B
Series	MG3690B
Frequency range standard	2 GHz to 40 GHz
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	K female

Leveled output power STD 2 to 10 GHz: +15.0 dBm

Leveled output power STD greater than 10 to 20 GHz: +12.0 dBm

Leveled output power STD greater than 20 to 40 GHz: +6.0 dBm

Leveled output with step attenuator STD 2 to 10 GHz: +14.0 dBm

Leveled output with step attenuator STD greater than 10 to 20 GHz: +10.0 dBm

Leveled output with step attenuator STD greater than 20 to 40 GHz: +3.0 dBm

Leveled output with Option 4 or 5 below 2 GHz: +15.0 dBm

Leveled output with Option 4 or 5 and step attenuator below 2 GHz: +14.0 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
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 20 to 40 GHz: less than -40 dBc

Nonharmonic spurious greater than 2 to 67 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 -105 dBm
Weight	18 kg maximum
DimensionsHxWxD	133 mm x 429 mm x 450 mm
Remote control	GPIB
Related lower band model	MG3693B 2 to 30 GHz
Related higher band model	MG3695B 2 to 50 GHz
RelatedArevision	MG3694A

Notes
Specs from Anritsu MG3690B Series technical data sheet for MG3694B (2-40 GHz). Confirm installed options (3/4/5/15/16/22/attenuator/modulation), exact max leveled power on the calibration label, and connector 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 ·
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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.