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Data Sheet
August 14, 2026

ANRITSU

Anritsu MG3694C Microwave Signal Generator; 2GHz – 40GHz

Anritsu MG3694C RF Microwave Signal Generator 2 to 40 GHz The Anritsu MG3694C extends the MG3690C synthesized signal generator family to 40 GHz with a 2.92 mm K(f) output. OEM MG3690C datasheets list 0.01 Hz resolution, optional high power and attenuators, and the same modulation and remote-control architecture as MG3692C with model-specific leveled power versus frequency. Microwave and millimeter-wave component test to 40 GHz, LO substitution, and automated RF stimulus in ATE. Full analog modulation suite including pulse The Anritsu MG3694C extends the MG3690C synthesized signal generator family to 40 GHz with a 2.92 mm K(f) output. OEM MG3690C datasheets list 0.01 Hz resolution, optional high power and attenuators, and the same modulation and remote-control architecture as MG3692C with model-specific leveled power versus frequency. Microwave and millimeter-wave component test to 40 GHz, LO substitution, and automated RF stimulus in ATE. Full analog modulation suite including pulse Frequency Range Standard: 2 GHz to 40 GHz

MODEL **Anritsu MG3694C**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **MG3694C**	LISTING **https://aumictechlabs.com/products/mg3694c-2/**

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This unit

The Anritsu MG3694C is a microwave signal generator delivering precise signal synthesis across 2 GHz to 40 GHz, with extension to 325 GHz via external multipliers. Built for R&D validation, radar verification, and satellite communication testing, it combines excellent phase noise performance with fast frequency agility and comprehensive modulation capabilities. Technical Specifications Frequency Coverage Operating range: 2 GHz to 40 GHz External multiplier extension: Up to 325 GHz Optional DDS extension: Down to 0.1 Hz (with 0.02 Hz resolution below 10 MHz; power degraded 2 dB in DDS band) Frequency resolution: 0.01 Hz (standard bands) Switching speed: 5 ms typical Phase Noise Three configurable performance levels available: Standard, Ultra low phase noise (Option 3), and Premium phase noise (Option 3X). Modulation & Sweep Modulation modes: AM, FM, Phase, Pulse, and optional IQ via IF input Scan modulation with external drive Sweep types: Broadband/narrowband step, phase-locked step, linear/log selectable, fixed-rate, manual stepped, analog, list, and CW power sweep Trigger modes: Auto, External, Single Signal Control Up to 20 independent markers (F0–F9, M0–M9) Phase offset: Adjustable in 0.1-degree steps 10 MHz reference input: ±50 Hz, 0 to +20 dBm (BNC, rear panel) 10 MHz reference output: 1 Vp-p into 50 Ω, AC coupled Internal timebase: Calibratable to external 10 MHz reference Key Features 0.01 Hz frequency resolution for precision tuning Fast 5 ms frequency switching for dynamic test sequences Selectable phase noise performance tiers to match application demands Integrated modulation suite handles simple to complex signal simulations Multiple sweep and trigger options for automated test routines Typical Applications Radar system characterization and validation Satellite communication receiver/transmitter testing Component and subsystem R&D verification Phase noise-sensitive measurement campaigns Compatibility & Integration Front panel manual control Remote operation via GPIB (IEEE-488) or Ethernet Coaxial RF output connector Rear-panel BNC connectors for reference signals and auxiliary I/O Rackmount form factor

Features & description

From manufacturer datasheet

High Power Option: Option 15

Notes From Anritsu MG3690C technical data sheet and brochure model column for MG3694C. Exact max leveled power versus band depends on Option 15 and attenuator; confirm option list on the unit.

MG3694C Characteristics / Specifications

PARAMETER	VALUE
Model	MG3694C
Frequency Range Standard	2 GHz to 40 GHz
Frequency Range With Option 4 Or	0.01 GHz to 40 GHz class
Frequency Resolution	0.01 Hz
Output Connector	2.92 mm K(f)
Minimum Leveled Power With Attenuator	minus 115 dBm
Minimum Settable Power With Attenuator	minus 120 dBm
Minimum Settable Power Without Attenuator	minus 20 dBm
Level Accuracy Less Than 40 GHz	plus or minus 1 dB
SSB Phase Noise Typ 10 GHz 10 kHz Offset	minus 119 dBc/Hz class family
Harmonics 2 To 20 GHz Band Class	minus 60 dBc class family table
Nonharmonics 2 To 20 GHz Band Class	minus 60 dBc class family table
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
Remote Interfaces	GPIB and Ethernet
Series Family	Anritsu MG3690C
Rack Options	MG3690C/1A with slides 1B without slides
Modulation	AM FM phase pulse per family
Power Resolution Class	0.01 dB
Form Factor	compact programmable benchtop/rack
Brochure Output Span Class With Options	minus 120 dBm to plus 19 dBm less than 40 GHz with Option 15
Analog Sweep Option	Option 6
Step Attenuator Options	2A mechanical or electronic variants per datasheet

PARAMETER	VALUE
High Power Option	Option 15

MG3694C Specifications

PARAMETER	VALUE
Applications	Microwave and millimeter-wave component test to 40 GHz, LO substitution, and automated RF stimulus in ATE.
Key Features	2 GHz to 40 GHz standard coverage
Technical Specifications	Model: MG3694C

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	MG3694C
Frequency Range Standard	2 GHz to 40 GHz
Frequency Range With Option 4 Or 5	0.01 GHz to 40 GHz class
Frequency Resolution	0.01 Hz
Output Connector	2.92 mm K(f)
Minimum Leveled Power With Attenuator	minus 115 dBm
Minimum Settable Power With Attenuator	minus 120 dBm
Minimum Settable Power Without Attenuator	minus 20 dBm
Level Accuracy Less Than 40 GHz	plus or minus 1 dB

SSB Phase Noise Typ 10 GHz 10 kHz Offset: minus 119 dBc/Hz class family

Specifications

PARAMETER	VALUE
Harmonics 2 To 20 GHz Band Class	minus 60 dBc class family table
Nonharmonics 2 To 20 GHz Band Class	minus 60 dBc class family table
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
Remote Interfaces	GPIB and Ethernet
Series Family	Anritsu MG3690C
Rack Options	MG3690C/1A with slides 1B without slides
Modulation	AM FM phase pulse per family
Power Resolution Class	0.01 dB
Form Factor	compact programmable benchtop/rack

Specifications

PARAMETER	VALUE
Brochure Output Span Class With Options	minus 120 dBm to plus 19 dBm less than 40 GHz with Option 15
Analog Sweep Option	Option 6
Step Attenuator Options	2A mechanical or electronic variants per datasheet
High Power Option	Option 15

Notes
From Anritsu MG3690C technical data sheet and brochure model column for MG3694C. Exact max leveled power versus band depends on Option 15 and attenuator; confirm option list 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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