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Data Sheet

August 14, 2026

ANRITSU

Anritsu MG3694A Microwave Signal Generator 40GHz

Anritsu MG3694A Microwave Signal Generator 2 GHz to 40 GHz The Anritsu MG3694A is a synthesized RF/microwave signal generator in the MG3690A family covering 2 GHz to 40 GHz standard, with optional extensions to 10 MHz or 0.1 Hz and external mmWave multipliers. Microwave component test, LO substitution, and broadband RF stimulus in R&D and manufacturing. Synthesized CW microwave source to 40 GHz The Anritsu MG3694A is a synthesized RF/microwave signal generator in the MG3690A family covering 2 GHz to 40 GHz standard, with optional extensions to 10 MHz or 0.1 Hz and external mmWave multipliers. Microwave component test, LO substitution, and broadband RF stimulus in R&D and manufacturing. Synthesized CW microwave source to 40 GHz Optional low frequency extensions Option 4/5/22



MODEL

Anritsu MG3694A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MG3694A

LISTING

<https://aumictechlabs.com/products/mg3694a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MG3694A is a synthesized signal generator designed for demanding RF and microwave applications. It has exceptional frequency coverage, signal purity, and output power, making it suitable for research, development, and manufacturing environments where precise and

reliable signal generation is critical. The Anritsu MG3694A is known for its configurable nature, allowing it to be adapted to specific needs and future upgrades.

Technical Specifications

- Frequency Range:**
 - * Standard: 2 GHz to 40 GHz
 - * Optional: 0.01 GHz to 40 GHz
 - * With external multipliers: Extended up to 110 GHz or beyond
 - * With Option 4 or 5: Extended down to 10 MHz
 - * With Option 22: Extended down to 0.1 Hz
- Frequency Resolution:**
 - * Standard: 0.01 Hz
 - * Alternative: 10.0 MHz
 - * With Option 22 (frequency < 10 MHz): 0.02 Hz
- Output Power:**
 - * Standard: +13 dBm (at 20 GHz), 9 dBm (≥ 2 to ≤ 20 GHz), 6 dBm (> 20 to ≤ 40 GHz)
 - * Optional (Option 15 High Power): +17 dBm (at 20 GHz), +14 dBm (at 40 GHz), 15 dBm (≥ 2 to ≤ 10 GHz), 12 dBm (> 10 to ≤ 20 GHz), 14 dBm (> 20 to ≤ 40 GHz)
 - * Accurately leveled output power to -120 dBm in 0.01 dB steps
- Phase Offset:** 0.1 dB steps
- Attenuation Range:** Wide
 - * -110 dB Mechanical Attenuator Option
 - * -120 dB Electronic Attenuator Option
- Signal Purity:**
 - * Lowest spectral purity content
 - * Ultra-low SSB phase noise and spurious
 - * With Option 3 (Ultra-Low Phase Noise): Delivers unrivaled phase noise performance
 - * Typical phase noise: < -145 dBm/Hz at 0 dBm output and offsets >5 MHz from carrier
 - * With Option 4 (Digital Down Converter): Offers best RF phase noise performance from 10 MHz to 2.2 GHz (< 130 dBc/Hz @ 1 GHz, 10 kHz offset)
- Modulation:**
 - * Amplitude, Frequency, Phase, and Pulse modulations available externally or internally-driven
 - * AM/FM/ØM/PM, External or Internal
 - * IF Up-Conversion Option for IQ modulation
 - * External Pulse Modulation (Option 13A)
- Sweep Capabilities:**
 - * Digital or Analog Ramp Sweep
 - * Digital frequency sweep and digital power sweep
 - * < 5 ms switching time for < 100 MHz sweep steps
- Output Impedance:** 50Ω nominal
- Power Level Stability with Temperature:** 0.04 dB/deg C typical
- Step Attenuator:** Electronic step attenuator replaces traditional mechanical attenuator for improved MTBF
- List Mode:** Internal list mode frees ATE controller for measurement analysis tasks
- Interfaces:**
 - * GPIB: IEEE 488 interface for remote operation
- External Connectors:** BNC connectors for AM OUT and HORIZ OUT
- Physical**
 - * Dimensions: 13.3 cm (3u) package height, 450 mm depth
 - Weight: 10 kg lighter and 15 cm shallower depth compared to predecessors

Compatibility and Applications

The Anritsu MG3694A is well-suited for:

- * Automatic Test Equipment (ATE): Designed for ATE applications with features like fast switching times and internal list modes to maximize system throughput
- Research and Development: Provides high performance for demanding R&D tasks
- Manufacturing: Reliable signal generation for production environments

Specific Applications:

- * Cellular/Base Station testing (2G/3G to 4G)
- * GPS Receiver Testing
- * Wi-Fi/Bluetooth testing (including 802.11AC and MIMO)
- * Video Transmission testing (DVB-T/H, DOCSIS 3.1)
- * Radar and Electronic Warfare systems testing

Options and Expandability

The Anritsu MG3694A series is highly configurable and upgradable. Key options include:

- * Option 03: Ultra-Low Phase Noise
- * Option 4: Digital Down Converter (extends frequency down to 10 MHz)
- * Option 5: Analog Down Converter (extends frequency down to 10 MHz)
- * Option 13: External Pulse Capabilities
- * Option 15: High Power Output
- * Option 22: Direct Digital Synthesizer (extends frequency down to 0.1 Hz)

Why Choose Aumictech for Anritsu MG3694A?

At Aumictech, we specialize in supplying high-end RF and microwave test equipment. Whether you need precise signal generation for complex research, reliable performance for manufacturing test, or adaptable solutions for evolving system integration needs, our team ensures the Anritsu MG3694A delivers maximum performance for your application.

Features & description

From manufacturer datasheet

High Power Option 15 20 to 40 GHz Class: up to plus 14 dBm

Frequency Resolution Standard: 0.01 Hz Option 22 Resolution Below 10 MHz: 0.02 Hz Option 4 Coverage: 10 MHz to 2.2 GHz Option 5 Coverage: 10 MHz to 2 GHz Option 22 Coverage: 0.1 Hz to 10 MHz Switching Speed Step Transitions: less than 40 ms Phase Locked Step Sweep Speed Class: less than 15 ms plus 1 ms/GHz Phase Noise Example 20 to 40 GHz at 100 Hz Offset: minus 60 dBc/Hz class Sweep Modes: phase locked step analog list manual with options Modulation: external FM PM AM pulse; internal with Options 12 14 23 24 Attenuator Options Class: 0 to 25 dB or to minimum rated power mmWave Extension: Option 18 with 54000 series multipliers to 110 GHz class Output Relocation: rear panel Option 9 Architecture: synthesized CW generator Family Peers: MG3691A to MG3696A covering 8.4 GHz to 65 GHz tops Application Band: RF and microwave Notes Numeric rows from Anritsu MG3690A RF/Microwave Signal Generators technical data sheet for MG3694A.

MG3694A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Synthesized microwave signal generator
Series Family	Anritsu MG3690A
Standard Frequency Range	2 GHz to 40 GHz
Output Connector	K female
Leveled Output Power 2 to 20 GHz Standard	plus 9 dBm class
Leveled Output Power 20 to 40 GHz Standard	plus 6 dBm class
High Power Option 15 2 to 10 GHz Class	up to plus 15 dBm
High Power Option 15 10 to 20 GHz Class	up to plus 12 dBm
High Power Option 15 20 to 40 GHz Class	up to plus 14 dBm
Frequency Resolution Standard	0.01 Hz
Switching Speed Step Transitions	less than 40 ms
Phase Locked Step Sweep Speed Class	less than 15 ms plus 1 ms/GHz
Phase Noise Example 20 to 40 GHz at 100 Hz Offset	minus 60 dBc/Hz class
Sweep Modes	phase locked step analog list manual with options
Modulation	external FM PM AM pulse; internal with Options 12 14 23 24
Attenuator Options Class	0 to 25 dB or to minimum rated power mmWave Extension: Option 18 with 54000 series multipliers to 110 GHz class
Output Relocation	rear panel Option 9
Architecture	synthesized CW generator
Family Peers	MG3691A to MG3696A covering 8.4 GHz to 65 GHz tops
Application Band	RF and microwave

MG3694A Specifications

PARAMETER	VALUE
Applications	Microwave component test, LO substitution, and broadband RF stimulus in R&D and manufacturing.
Key Features	Synthesized CW microwave source to 40 GHz
Technical Specifications	Instrument Type: Synthesized microwave signal generator
Notes	Numeric rows from Anritsu MG3690A RF/Microwave Signal Generators technical data sheet for MG3694A.

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	
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PARAMETER	VALUE
Instrument Type	Synthesized microwave signal generator
Series Family	Anritsu MG3690A
Standard Frequency Range	2 GHz to 40 GHz
Output Connector	K female
Leveled Output Power 2 to 20 GHz Standard: plus 9 dBm class	
Leveled Output Power 20 to 40 GHz Standard: plus 6 dBm class	
High Power Option 15 2 to 10 GHz Class: up to plus 15 dBm	
High Power Option 15 10 to 20 GHz Class: up to plus 12 dBm	
High Power Option 15 20 to 40 GHz Class: up to plus 14 dBm	
Frequency Resolution Standard: 0.01 Hz	
Option 22 Resolution Below 10 MHz: 0.02 Hz	
Option 4 Coverage: 10 MHz to 2.2 GHz	
Option 5 Coverage: 10 MHz to 2 GHz	
Option 22 Coverage: 0.1 Hz to 10 MHz	
Switching Speed Step Transitions: less than 40 ms	
Phase Locked Step Sweep Speed Class: less than 15 ms plus 1 ms/GHz	
Phase Noise Example 20 to 40 GHz at 100 Hz Offset: minus 60 dBc/Hz class	
Specifications	
PARAMETER	VALUE
Sweep Modes	phase locked step analog list manual with options
Modulation	external FM PM AM pulse; internal with Options 12 14 23 24
Attenuator Options Class	0 to 25 dB or to minimum rated power
mmWave Extension	Option 18 with 54000 series multipliers to 110 GHz class
Output Relocation	rear panel Option 9
Architecture	synthesized CW generator
Family Peers	MG3691A to MG3696A covering 8.4 GHz to 65 GHz tops
Application Band	RF and microwave
Notes	
Numeric rows from Anritsu MG3690A RF/Microwave Signal Generators technical data sheet for MG3694A.	

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.