

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

ANRITSU

Anritsu MG3690C RF/Microwave Signal Generator

Anritsu MG3690C RF Microwave Signal Generator Family The Anritsu MG3690C is the C-generation RF/microwave synthesized signal generator platform succeeding MG3690A models, covering microwave bands with model-dependent upper frequency limits in the same architecture family as MG3691-MG3696. Microwave stimulus, LO substitution, and broadband RF component test. Synthesized RF/microwave signal generator platform C-generation MG3690 family The Anritsu MG3690C is the C-generation RF/microwave synthesized signal generator platform succeeding MG3690A models, covering microwave bands with model-dependent upper frequency limits in the same architecture family as MG3691-MG3696. Microwave stimulus, LO substitution, and broadband RF component test. Synthesized RF/microwave signal generator platform C-generation MG3690 family Model dependent frequency coverage to microwave bands



MODEL

Anritsu MG3690C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MG3690C

LISTING

<https://aumictechlabs.com/products/mg3690c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MG3690C series is a RF/microwave signal generator delivering extended frequency coverage, precise amplitude control, and exceptional signal purity across demanding test and

validation environments. Four base models span 0.1 Hz to 20 GHz, 40 GHz, 50 GHz, and 70 GHz, with optional down-converters extending low-frequency capability to 8 MHz and multiplier support reaching 500 GHz. Output power ranges from -120 dBm to +25 dBm with amplitude accuracy of ± 1 dB to 40 GHz and ± 1.5 dB to 60 GHz. Phase noise performance reaches -115 dBc/Hz at 100 kHz offset (10 GHz, Option 3), with three selectable performance tiers available. Fast frequency switching in list mode operates at 2 mSec minimum, reducing test cycle time. Internal time base stability achieves $< 2 \times 10^{-9}$ /day aging and $< 2 \times 10^{-8}$ /°C temperature drift over 0 °C to 55 °C operating range, calibratable to external 10 MHz references. Modulation capabilities via Option 28 include AM, FM, PM, and pulse modulation, supported by internal LF and pulse generators. All models feature 0.01 Hz frequency resolution, Ethernet and IEEE-488 interfaces, and compact 429 × 133 × 450 mm form factor at 18 kg. Technical Specifications Frequency Coverage: 0.1 Hz to 20 GHz (MG3692C); 0.1 Hz to 40 GHz (MG3694C); 0.1 Hz to 50 GHz (MG3695C); 0.1 Hz to 70 GHz (MG3697C) Extended Range: 8 MHz minimum with down-converter options; up to 500 GHz with external multipliers Output Power: -120 dBm to +25 dBm; maximum +19 dBm (-2 dB with Option 22) Amplitude Accuracy: ± 1 dB (to 40 GHz); ± 1.5 dB (to 60 GHz) Phase Noise (SSB): -115 dBc/Hz at 100 kHz offset, 10 GHz with Option 3 Frequency Resolution: 0.01 Hz; <10 MHz: 0.02 Hz Frequency Switching: 2 mSec minimum (list mode) Time Base Aging: $< 2 \times 10^{-9}$ /day; Option 16: $< 5 \times 10^{-10}$ /day Time Base Temperature Drift: $< 2 \times 10^{-8}$ /°C (0-55 °C); Option 16: $< 2 \times 10^{-10}$ /°C Key Features Three levels of phase noise performance: Standard, Ultra low (Option 3), Premium (Option 3X) Modulation modes: AM, FM, PM, pulse (Option 28) Internal LF and pulse generators (Option 27) Direct Digital Synthesis (DDS) for extended low-frequency coverage Heterodyne and Digital Down-Converter topologies for down-conversion options Calibration to external 10 MHz reference (± 50 Hz) Typical Applications Wideband communications testing Radar system validation Electronic warfare simulation Manufacturing and design validation Compatibility & Integration Ethernet and IEEE-488 (GPIB) control interfaces Operating temperature: 0 °C to 50 °C Dimensions: 429 × 133 × 450 mm; Weight: 18 kg

Features & description

From manufacturer datasheet

High Power Options: available on family

Low Frequency Options: extend below 2 GHz class mmWave: external multiplier support class Remote: GPIB automation class Form Factor: benchtop signal generator Use Stage: R&D manufacturing Calibration: OEM periodic calibration Reference: internal/external reference Attenuator: step attenuator options class Display: frequency and power readouts Family Peers: MG3691C through high band MG3696C class Application Band: RF and microwave Configuration Note: select exact MG369xC model datasheet row for numeric frequency and power limits before denser upload Notes Platform identity from Anritsu MG3690C product literature. Use the specific MG369xC model datasheet column for exact frequency/power numeric tables before upload.

MG3690C Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Synthesized RF microwave signal generator
Series Family	Anritsu MG3690C
Architecture	synthesized CW microwave generator
Predecessor Family	MG3690A series
Frequency Coverage	model dependent within MG369xC lineup
Output	leveled microwave output
Connectors	K or Vtype depending on model band
Resolution	fine frequency resolution class 0.01 Hz family
Sweep Modes	step list analog with options
Modulation	AM FM PM pulse with options
Switching	fast synthesized switching class
Phase Noise	microwave synthesizer performance class
High Power Options	available on family
Low Frequency Options	extend below 2 GHz class mmWave: external multiplier support class
Remote	GPIB automation class
Form Factor	benchtop signal generator
Use Stage	R&D manufacturing
Calibration	OEM periodic calibration
Reference	internal/external reference
Attenuator	step attenuator options class
Display	frequency and power readouts
Family Peers	MG3691C through high band MG3696C class
Application Band	RF and microwave
Configuration Note	select exact MG369xC model datasheet row for numeric frequency and power limits before denser upload

MG3690C Specifications

PARAMETER	VALUE
Anritsu MG3690C RF Microwave Signal Generator Family	Overview
Applications	Microwave stimulus, LO substitution, and broadband RF component test.
Synthesized RF/microwave signal generator platform	C generation MG3690 family
Technical Specifications	Instrument Type: Synthesized RF microwave signal generator

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
Instrument Type	Synthesized RF microwave signal generator
Series Family	Anritsu MG3690C
Architecture	synthesized CW microwave generator
Predecessor Family	MG3690A series
Frequency Coverage	model dependent within MG369xC lineup
Output	leveled microwave output
Connectors	K orVtype depending on model band
Resolution	fine frequency resolution class 0.01 Hz family
Sweep Modes	step list analog with options
Modulation	AM FM PM pulse with options
Switching	fast synthesized switching class
Phase Noise	microwave synthesizer performance class
High Power Options	available on family
Low Frequency Options	extend below 2 GHz class
mmWave	external multiplier support class
Remote	GPIO automation class
Form Factor	benchtop signal generator
Use Stage	R&D manufacturing
Calibration	OEM periodic calibration
Reference	internal/external reference
Attenuator	step attenuator options class
Display	frequency and power readouts
Family Peers	MG3691C through high band MG3696C class
Application Band	RF and microwave
Configuration Note	select exact MG369xC model datasheet row for numeric frequency and power limits before denser upload

Notes

Platform identity from Anritsu MG3690C product literature. Use the specific MG369xC model datasheet column for exact frequency/power numeric tables before upload.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.