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Data Sheet

August 13, 2026

ANRITSU

Anritsu MG3692A Synthesized Signal Generator, 10MHz to 20GHz

Anritsu MG3692A Synthesized Signal Generator 2–20 GHz The Anritsu MG3692A is a broadband high-performance RF/microwave signal generator in the MG3690A Series with standard coverage from 2 GHz to 20 GHz (K female output). Optional RF downconversion and DDS extend coverage to 10 MHz or 0.1 Hz. It offers fine frequency resolution, high leveled output power, excellent spectral purity, and optional ultra-low phase noise, modulation, and attenuator packages for dual RF/microwave applications. The Anritsu MG3692A is a broadband high-performance RF/microwave signal generator in the MG3690A Series with standard coverage from 2 GHz to 20 GHz (K female output). Optional RF downconversion and DDS extend coverage to 10 MHz or 0.1 Hz. It offers fine frequency resolution, high leveled output power, excellent spectral purity, and optional ultra-low phase noise, modulation, and attenuator packages for dual RF/microwave applications.



MODEL

Anritsu MG3692A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MG3692A

LISTING

<https://aumictechlabs.com/products/mg3692a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MG3692A is a synthesized signal generator delivering precise RF and microwave signal generation from 10 MHz to 20 GHz. Built for demanding test environments, it combines

broad frequency coverage with fine-resolution control, multiple modulation modes, and exceptional phase noise performance. Engineers rely on it for component characterization, system validation, and production testing across commercial and defense applications.

Technical Specifications

Frequency Performance Frequency range: 10 MHz to 20 GHz (base model); extendable to 0.1 Hz or 2 GHz lower with options Frequency resolution: 0.01 Hz standard; 0.1 Hz with Option 11 Step sweep: 1 to 10,000 steps with selectable step size (0.01 Hz to full range) and dwell time (1 ms to 99 seconds) List sweep mode: Up to 4 tables, 2000 non-sequential frequency/power sets per table Digital and analog ramp sweep, fixed-rate sweep (20 ms to 99 seconds), and alternate sweep capability External multipliers supported (Option 18 mmW bias required) extend coverage to 110 GHz Output Power Maximum output: +13 dBm at 20 GHz (standard); +17 dBm optional High Power Option 15: -5 dBm typical without attenuator; -10 dBm typical with attenuator Electronic attenuator leveling: -140 dBm minimum; -105 dBm with Option 15 Attenuator options: 110 dB mechanical or 120 dB electronic Output power accuracy: 0.01 dB steps at leveled output to -120 dBm Phase Noise & Spectral Purity SSB phase noise: Typically 5 MHz from carrier Ultra-low phase noise option available for >2 GHz Residual FM: ≤ -30 dBc (0.1 Hz-10 MHz, Option 22); ≤ -40 dBc (10-100 MHz, Option 4); ≤ -50 dBc (100 MHz-20 GHz, Option 4) Modulation AM, FM, phase modulation, and pulse modulation Internal or external modulation source

Key Features Frequency resolution to 0.01 Hz enables precise carrier placement and fine sweep control Wide attenuation options (120 dB electronic) support low-level signal validation List sweep and step sweep modes streamline automated test sequences Optional multiplier support extends microwave coverage beyond standard 20 GHz limit

Typical Applications Component and subsystem RF characterization Receiver sensitivity and selectivity measurements Transmitter linearity and spectral compliance testing Phase noise and jitter evaluation

Compatibility & Integration Option 18 (mmW bias) enables external multiplier operation for millimeter-wave applications. Option 4 and Option 22 optimize residual FM performance across specific frequency bands. Extended frequency coverage down to 0.1 Hz available via optional DDS module.

Features & description

From manufacturer datasheet

Features

- Base frequency coverage 2 to 20 GHz, K(f) output
- Frequency resolution 0.01 Hz class (0.02 Hz below 10 MHz with Option 22)
- Standard leveled power +13 dBm across 2–20 GHz; +17 dBm optional high power
- Optional ultra-low phase noise (Option 3) and digital downconverter RF options
- Optional AM/FM/ΦM/PM and pulse modulation packages
- Optional 10 dB/step mechanical or 120 dB electronic attenuator
- Analog, step, and list frequency sweeps plus CW power sweep
- Standard 3-year OEM warranty claim on MG3690A Series

Applications

- Microwave CW and modulated stimulus 2–20 GHz
- Dual RF/microwave coverage with Option 4/5/22 extensions
- Receiver, component, and system characterization
- Low-phase-noise LO and synthesizer substitution
- ATE sources with GPIB automation
- Optional mmWave multiplier drive (Option 18) for 50–110 GHz modules

High power Option 15 2 to 20 GHz class: +17 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 External 10 MHz reference input: ±100 Hz, 0 to +20 dBm typical High stability time base option: Option 16 ovenized 10 MHz Ultra low phase noise option: Option 3 Minimum leveled power without attenuator class: to -20 dBm typical family Minimum leveled power with mechanical attenuator class: to -120 dBm family Harmonics greater than 2 to 20 GHz standard: less than -60 dBc Nonharmonic spurious greater than 2 to 65 GHz: less than -60 dBc Weight: 18 kg maximum DimensionsHxWxD: 133 mm x 429 mm x 450 mm Stored setups: front panel plus nine additional nonvolatile setups List/step sweep: supported (analog, step, list, CW power sweep) Sweep triggers: Auto, External TTL, Single Self test: yes via soft key Remote control: GPIB mmWave bias option: Option 18 for 54000 series multipliers Multiplier drive band with Option 18: input below 20 GHz suitable for 50–110 GHz modules Warranty years standard claim: 3 Related lower band model: MG3691A 2 to 8.4 GHz Related higher band model: MG3693A 2 to 30 GHz Notes Specs from Anritsu MG3690A Series technical data sheet for MG3692A. 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.

MG3692A Characteristics / Specifications

PARAMETER	VALUE
Anritsu MG3692A Synthesized Signal Generator	20 GHz Overview The Anritsu MG3692A is a broadband high-performance RF/microwave signal generator in the MG3690A Series with standard coverage from 2 GHz to 20 GHz (K female output). Optional RF downconversion and DDS extend coverage to 10 MHz or 0.1 Hz. It offers fine frequency resolution, high leveled output power, excellent spectral purity, and optional ultra-low phase noise, modulation, and attenuator packages for dual RF/microwave applications.
Model	MG3692A
Manufacturer	Anritsu
Instrument Type	RF/Microwave Synthesized Signal Generator
Alias	MG3692A; Anritsu MG3692A
Series	MG3690A
Frequency range standard	2 GHz to 20 GHz
Frequency Option	10 MHz to 2.2 GHz
RF output connector standard	K female
Leveled output power STD 2 to 20 GHz	+13.0 dBm
Leveled output with step attenuator STD 2 to 20 GHz	+11.0 dBm
High power Option 15 2 to 20 GHz class	+17 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
External 10 MHz reference input	±100 Hz, 0 to +20 dBm typical
High stability time base option	Option 16 ovenized 10 MHz
Ultra low phase noise option	Option 3
Minimum leveled power without attenuator class	to -20 dBm typical family

PARAMETER	VALUE
Minimum leveled power with mechanical attenuator class	to -120 dBm family
Harmonics greater than 2 to 20 GHz standard	less than -60 dBc
Nonharmonic spurious greater than 2 to 65 GHz	less than -60 dBc
Weight	18 kg maximum
DimensionsHxWxD	133 mm x 429 mm x 450 mm
Stored setups	front panel plus nine additional nonvolatile setups
List/step sweep	supported (analog, step, list, CW power sweep)
Sweep triggers	Auto, External TTL, Single
Self test	yes via soft key
Remote control	GPIO mmWave bias option: Option 18 for 54000 series multipliers
Multiplier drive band with Option	input below 20 GHz suitable for 50–110 GHz modules
Warranty years standard claim	3
Related lower band model	MG3691A 2 to 8.4 GHz
Related higher band model	MG3693A 2 to 30 GHz Notes Specs from Anritsu MG3690A Series technical data sheet for MG3692A. 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.

performance RF/microwave signal generator in the MG3690A Series with standard coverage from 2 GHz to 20 GHz (K female output). Optional RF downconversion and DDS extend coverage to 10 MHz or 0.1 Hz. It offers fine frequency resolution, high leveled output power, excellent spectral purity, and optional ultra-low phase noise, modulation, and attenuator packages for dual RF/microwave applications.

Applications

- Microwave CW and modulated stimulus 2-20 GHz
- Dual RF/microwave coverage with Option 4/5/22 extensions
- Receiver, component, and system characterization
- Low-phase-noise LO and synthesizer substitution
- ATE sources with GPIB automation
- Optional mmWave multiplier drive (Option 18) for 50-110 GHz modules

Key Features

- Base frequency coverage 2 to 20 GHz, K(f) output
- Frequency resolution 0.01 Hz class (0.02 Hz below 10 MHz with Option 22)
- Standard leveled power +13 dBm across 2-20 GHz; +17 dBm optional high power
- Optional ultra-low phase noise (Option 3) and digital downconverter RF options
- Optional AM/FM/ØM/PM and pulse modulation packages
- Optional 10 dB/step mechanical or 120 dB electronic attenuator
- Analog, step, and list frequency sweeps plus CW power sweep
- Standard 3-year OEM warranty claim on MG3690A Series

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	MG3692A
Manufacturer	Anritsu
Instrument Type	RF/Microwave Synthesized Signal Generator
Alias	MG3692A; Anritsu MG3692A
Series	MG3690A
Frequency range standard	2 GHz to 20 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 20 GHz: +13.0 dBm
Leveled output with step attenuator STD 2 to 20 GHz: +11.0 dBm
Leveled output with Option 5 ≤2 GHz: +17.0 dBm
Leveled output with Option 5 and step attenuator ≤2 GHz: +15.0 dBm
High power Option 15 2 to 20 GHz class: +17 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
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External 10 MHz reference input	±100 Hz, 0 to +20 dBm typical
High stability time base option	Option 16 ovenized 10 MHz
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Minimum leveled power without attenuator class	to -20 dBm typical family
Minimum leveled power with mechanical attenuator class	to -120 dBm family

Harmonics greater than 2 to 20 GHz standard: less than -60 dBc
Nonharmonic spurious greater than 2 to 65 GHz: less than -60 dBc

Specifications

PARAMETER	VALUE
Weight	18 kg maximum
DimensionsHxWxD	133 mm x 429 mm x 450 mm
Stored setups	front panel plus nine additional nonvolatile setups
List/step sweep	supported (analog, step, list, CW power sweep)
Sweep triggers	Auto, External TTL, Single
Self test	yes via soft key
Remote control	GPIB
mmWave bias option	Option 18 for 54000 series multipliers
Multiplier drive band with Option 18	input below 20 GHz suitable for 50-110 GHz modules

Warranty years standard claim: 3

Related lower band model: MG3691A 2 to 8.4 GHz

Related higher band model: MG3693A 2 to 30 GHz

Notes

Specs from Anritsu MG3690A Series technical data sheet for MG3692A. 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

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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.