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Data Sheet

August 14, 2026

ANRITSU

Anritsu MG362X1A RF/Microwave Signal Generator – RF/Microwave Signal Generator

Anritsu MG362×1A Rubidium RF Microwave Signal Generator Family The Anritsu MG362×1A Rubidium family covers 9 kHz to 20/43.5/70 GHz with 0.001 Hz frequency resolution. OEM Rubidium product brief lists SSB phase noise minus 136 dBc/Hz typical and minus 140 dBc/Hz measured at 10 GHz 10 kHz offset, harmonics minus 58 dBc on MG36221A, and standard output to plus 20 dBm at 20 GHz. Radar LO substitution, ADC/DAC clocking, VNA companion source, and metrology CW work needing low phase noise microwave generation. The Anritsu MG362×1A Rubidium family covers 9 kHz to 20/43.5/70 GHz with 0.001 Hz frequency resolution. OEM Rubidium product brief lists SSB phase noise minus 136 dBc/Hz typical and minus 140 dBc/Hz measured at 10 GHz 10 kHz offset, harmonics minus 58 dBc on MG36221A, and standard output to plus 20 dBm at 20 GHz. Radar LO substitution, ADC/DAC clocking, VNA companion source, and metrology CW work needing low phase noise microwave generation. 9 kHz to 20/43.5/70 GHz coverage by model Rubidium class phase noise options 3/13/23



MODEL

Anritsu MG362X1A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MG362X1A

LISTING

<https://aumictechlabs.com/products/mg362x1a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MG362X1A is a RF/microwave signal generator engineered for R&D, manufacturing, and depot repair environments requiring exceptional signal purity and frequency stability. Operating from 9 kHz to 70 GHz across multiple models, this generator delivers phase noise of -136 dBc/Hz typical at 10 GHz (10 kHz offset), with harmonics better than -58 dBc and spurious levels below -63 dBc. The instrument supports AM, FM, PM, and pulse modulation with simultaneous modulation modes for complex waveforms, including pulse rise/fall times of 5 ns typical and quad pulse signal generation. Frequency resolution extends to 0.001 Hz, with output power ranging from -130 dBm to $+20$ dBm at 20 GHz. Internal frequency stability options include OCXO (aging $< \pm 5 \times 10^{-7}$ per year) and Rubidium (aging $< \pm 1 \times 10^{-9}$ per year, Allan deviation $< 8.0 \times 10^{-12}$ over 100 sec). External reference synchronization via GNSS/GPS is available, with reference frequency I/O at 10 MHz, 100 MHz, and 1600 MHz. A 7-inch touch screen interface with four front-panel USB 3.0 ports enables intuitive local and remote operation.

Technical Specifications
Frequency Range: 9 kHz to 70 GHz (operable to 72 GHz); models available at 20 GHz, 43.5 GHz, and 70 GHz
Frequency Resolution: 0.001 Hz
Output Power: -130 to $+20$ dBm (20 GHz), -130 to $+16$ dBm (43.5 GHz), -100 to $+6$ dBm (70 GHz); leveled output to $+30$ dBm
Harmonics: Better than -58 dBc typical; -55 dBc at 20/43.5/70 GHz
Spurious (Non-Harmonics): Less than -63 dBc
SSB Phase Noise: -136 dBc/Hz typical; -140 dBc/Hz measured at 10 GHz, 10 kHz offset
Modulation Types: AM, FM, PM, Pulse; simultaneous AM/FM, AM/PM, FM/Pulse
Pulse Characteristics: 5 ns rise/fall time typical; leveled pulse modulation, quad pulse, pulse sweep
LF Waveforms: Sine, Square, Pulse, Triangle, Ramp, Gaussian Noise, Uniform Noise, User Defined
Sweep Modes: Analog, Step, List (9 kHz to full range)
Internal Time Base Stability: OCXO ($\pm 5 \times 10^{-7}$ /year aging); Rubidium ($\pm 1 \times 10^{-9}$ /year aging, $< 8.0 \times 10^{-12}$ Allan deviation/100 sec)
Reference I/O: 10 MHz, 100 MHz, 1600 MHz
Interface: 7-inch touch screen, keypad, dial; four USB 3.0 front-panel ports

Key Features
Optional high-power output (Option 15)
Low phase noise enhancements (Options 3, 13, 23)
GNSS/GPS atomic clock receiver (Option 66) for external synchronization
Pulse train generator option for radar signal simulation

Typical Applications
Component and subsystem characterization
Radar and electronic warfare testing
Receiver sensitivity and linearity measurements
Phase noise-dependent applications
Complex waveform simulation and validation

MG362X1A Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	MG362×1A Rubidium signal generator
MG36221A Frequency Range	9 kHz to 20 GHz
Family High Frequency Models	43.5 GHz and 70 GHz operable to 72 GHz
Frequency Resolution	0.001 Hz
Phase Offset	adjustable in 0.1 degree steps
SSB Phase Noise 10 GHz 10 kHz Offset	minus 136 dBc/Hz typical and minus 140 dBc/Hz measured
Time Base Aging With Option	less than plus or minus 2e-8 per year
Reference Input Output	10 MHz 100 MHz 1600 MHz
Output Power 20 GHz Standard	minus 130 dBm to plus 20 dBm
Output Power 43.5 GHz Standard	minus 130 dBm to plus 16 dBm
Output Power 70 GHz Standard	minus 100 dBm to plus 6 dBm
Level Accuracy Flatness MG36221A/MG36241A	plus or minus 1.4 dB
Level Accuracy Flatness MG36271A	plus or minus 2.5 dB
Harmonics MG36221A	minus 58 dBc
Harmonics MG36241A and MG36271A	minus 55 dBc
Sub Harmonics MG36221A and MG36241A	minus 83 dBc
Sub Harmonics MG36271A	minus 63 dBc
Non Harmonics	minus 63 dBc
Pulse Modulation Minimum Width Unleveled	less than 50 ns
Pulse Modulation Rise Fall Typical	5 ns
Frequency Sweep Width Step List	9 kHz to full range
Analog Sweep Width	100 MHz to full range
Power Sweep Resolution	0.01 dB/step

PARAMETER	VALUE
Remote Interfaces	LAN IEEE 488 GPIB USB

MG362X1A Specifications

PARAMETER	VALUE
Applications	Radar LO substitution, ADC/DAC clocking, VNA companion source, and metrology CW work needing low phase noise microwave generation.
Key Features	9 kHz to 20/43.5/70 GHz coverage by model
Technical Specifications	Instrument Family: MG362×1A Rubidium 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	
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PARAMETER	VALUE
Instrument Family	MG362x1A Rubidium signal generator
MG36221A Frequency Range	9 kHz to 20 GHz
Family High Frequency Models	43.5 GHz and 70 GHz operable to 72 GHz
Frequency Resolution	0.001 Hz
Phase Offset	adjustable in 0.1 degree steps
SSB Phase Noise 10 GHz 10 kHz Offset: minus 136 dBc/Hz typical and minus 140 dBc/Hz measured	
Specifications	
PARAMETER	VALUE
Time Base Aging With Option 3	less than plus or minus 2e-8 per year
Reference Input Output	10 MHz 100 MHz 1600 MHz
Output Power 20 GHz Standard	minus 130 dBm to plus 20 dBm
Output Power 43.5 GHz Standard	minus 130 dBm to plus 16 dBm
Output Power 70 GHz Standard	minus 100 dBm to plus 6 dBm
Level Accuracy Flatness MG36221A/MG36241A	plus or minus 1.4 dB
Level Accuracy Flatness MG36271A	plus or minus 2.5 dB
Harmonics MG36221A	minus 58 dBc
Harmonics MG36241A and MG36271A	minus 55 dBc
Sub Harmonics MG36221A and MG36241A	minus 83 dBc
Sub Harmonics MG36271A	minus 63 dBc
Non Harmonics	minus 63 dBc
Pulse Modulation Minimum Width Unleveled	less than 50 ns
Pulse Modulation Rise Fall Typical	5 ns
Frequency Sweep Width Step List	9 kHz to full range
Analog Sweep Width	100 MHz to full range
Power Sweep Resolution	0.01 dB/step

Option 0002 Attenuator: mechanical step attenuator 110 dB

Remote Interfaces: LAN IEEE 488 GPIB USB

Notes

From Anritsu Rubidium MG362x1A Signal Generator product brief 11410-02866. Queue model MG362X1A is the family; confirm MG36221A versus 41A/71A frequency cover on the installed 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 ·
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.