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Data Sheet
August 13, 2026

ANRITSU

Anritsu MG3696B Synthesized Signal Generator, 2 to 65GHz

Anritsu MG3696B Synthesized Signal Generator 2 to 67 GHz The Anritsu MG3696B is an RF/microwave synthesized signal generator in the MG3690B Series with standard coverage from 2 GHz to 67 GHz onaVfemale output (operational toward 70 GHz class). Optional digital or analog downconversion extends coverage to 10 MHz, and Option 22 DDS extends to 0.1 Hz. It provides fine frequency resolution, leveled output, excellent spectral purity, optional ultra-low phase noise, and AM/FM/phase/pulse modulation packages for dual RF/microwave bench and ATE use through V-band. The Anritsu MG3696B is an RF/microwave synthesized signal generator in the MG3690B Series with standard coverage from 2 GHz to 67 GHz onaVfemale output (operational toward 70 GHz class). Optional digital or analog downconversion extends coverage to 10 MHz, and Option 22 DDS extends to 0.1 Hz. It provides fine frequency resolution, leveled output, excellent spectral purity, optional ultra-low phase noise, and AM/FM/phase/pulse modulation packages for dual RF/microwave bench and ATE use through V-band.

MODEL	CALIBRATION
Anritsu MG3696B	Available on request
CONDITION	**STATUS**
Used	In stock
RFQ / SKU	**LISTING**
MG3696B	https://aumictechlabs.com/products/mg3696b-2/

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Anritsu MG3696B is a synthesized signal generator delivering high-purity signals from 2 to 65 GHz, extending to 67 GHz operationally. It supports optional low-frequency extension down to 10 MHz, or DC coverage to 0.1 Hz with Option 22. Purpose-built for microwave and millimeter-wave component and system testing, the MG3696B serves R&D, manufacturing, and ATE environments with configurable architecture and exceptional spectral purity.Technical Specifications Frequency Coverage Base range: 2 to 65 GHz operational to 67 GHz Optional extension: 10 MHz to 65 GHz (Options 4 or 5) DC extension: 0.1 Hz to 65 GHz (Option 22 with Options 4 or 5) Extended range with external multipliers: Up to 325 GHz or beyond Frequency resolution: 0.01 Hz standard; 0.02 Hz below 10 MHz (Option 22) Output Power Standard: +17 dBm typical at 20 GHz Leveled output: -120 dBm to +17 dBm in 0.01 dB steps High power options: +25 dBm to 10 GHz, +23 dBm to 20 GHz, +19 dBm to 40 GHz, +13 dBm to 50 GHz, +3 dBm to 65 GHz Typical high power levels: +26 dBm at 20 GHz, +21 dBm at 40 GHz, +16 dBm at 50 GHz 2 dB power degradation with Option 22 Phase Noise & Spectral Purity Ultra-low SSB phase noise option: Typically –110 dBc/Hz at 1 kHz offset, 10 GHz carrier Standard phase noise: –94 dBc/Hz at 1 kHz offset Excellent harmonics and spurious response across full spectrum Switching Performance Frequency switching: Typically 5 ms for 1 GHz; internal pulse generator with swept delay for moving target simulation IF up-conversion option for IQ modulation solutions Menu-driven front panel interface; remote control via IEEE-488 GPIB with SCPI support Modulation and analog sweep unavailable in 0.1 Hz to 10 MHz band with Option 22Typical Applications Component characterization, system integration testing, receiver sensitivity and dynamic range assessment, frequency response mapping, modulated signal generation for transceiver validation.Compatibility & Integration Full GPIB remote control with native interface language and SCPI programming. Local front-panel operation via intuitive menu navigation.

Features & description

From manufacturer datasheet

Features

• Base frequency coverage 2 to 67 GHz, V(f) output • Frequency resolution 0.01 Hz class (0.02 Hz below 10 MHz with Option 22) • Optional ultra low phase noise Option 3 and digital downconverter Option 4 • Optional AM/FM/phase/pulse modulation suites (Opt 28B class) • Optional mechanical step attenuator • Analog, step, and list frequency sweeps plus CW power sweep • High power Option 15 available where listed for MG3690B • MG3690B platform successor to MG3696A coverage class

Applications

• Microwave CW and modulated stimulus 2 to 67 GHz • Dual RF/microwave coverage with Option 4/5/22 extensions • Receiver, component, and system characterization to 67 GHz • Low phase noise LO and synthesizer substitution • ATE sources with GPIB automation • Optional mmWave multiplier drive for higher bands

MG3696B Characteristics / Specifications

PARAMETER	VALUE
Model	MG3696B
Manufacturer	Anritsu
Instrument Type	RF/Microwave Synthesized Signal Generator
Alias	MG3696B; Anritsu MG3696B
Series	MG3690B
Frequency range standard	2 GHz to 67 GHz
Frequency Option	10 MHz to 2.2 GHz
RF output connector standard	V female
Leveled output power STD 2 to 20 GHz	+10.0 dBm
Leveled output power STD greater than 20 to 67 GHz	+3.0 dBm
Leveled output with step attenuator STD 2 to 20 GHz	+8.0 dBm
Leveled output with step attenuator STD greater than 20 to 67 GHz	0.0 dBm typical 60 to 67 GHz
Leveled output with Option 4 or 5 below 2 GHz	+12.0 dBm
Leveled output with Option 4 or 5 and step attenuator below 2 GHz	+10.0 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
Internal time base aging	less than 2 × 10^-9/day
Internal time base aging Option	less than 5 × 10^-10/day
Switching time typical max	less than 40 ms to within 1 kHz

PARAMETER	VALUE
Harmonics greater than 2 to 20 GHz standard	less than -60 dBc
Harmonics greater than 40 to 67 GHz	less than -25 dBc
Nonharmonic spurious greater than 2 to 67 GHz	less than -60 dBc
Minimum leveled power without attenuator class	to -5 dBm (-10 dBm typical)
Minimum leveled power with attenuator class	to -95 dBm
Weight	18 kg maximum
DimensionsHxWxD	133 mm x 429 mm x 450 mm
Remote control	GPIB
Related lower band model	MG3695B 2 to 50 GHz
RelatedArevision	MG3696A Notes Specs from Anritsu MG3690B Series technical data sheet for MG3696B (2–67 GHz; typical 60–67 GHz power). Confirm installed options (3/4/5/15/16/22/attenuator/modulation), exact max leveled power on the calibration label, andVconnector 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.

Specifications

Specifications

PARAMETER	VALUE
Model	MG3696B
Manufacturer	Anritsu
Instrument Type	RF/Microwave Synthesized Signal Generator
Alias	MG3696B; Anritsu MG3696B
Series	MG3690B
Frequency range standard	2 GHz to 67 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	V female

Leveled output power STD 2 to 20 GHz: +10.0 dBm
Leveled output power STD greater than 20 to 67 GHz: +3.0 dBm
Leveled output with step attenuator STD 2 to 20 GHz: +8.0 dBm
Leveled output with step attenuator STD greater than 20 to 67 GHz: 0.0 dBm typical 60 to 67 GHz
Leveled output with Option 4 or 5 below 2 GHz: +12.0 dBm
Leveled output with Option 4 or 5 and step attenuator below 2 GHz: +10.0 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
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2 x 10^-9/day
Internal time base aging Option 16	less than 5 x 10^-10/day
Switching time typical max	less than 40 ms to within 1 kHz

Harmonics greater than 2 to 20 GHz standard: less than -60 dBc
Harmonics greater than 40 to 67 GHz: less than -25 dBc
Nonharmonic spurious greater than 2 to 67 GHz: less than -60 dBc

Specifications

PARAMETER	VALUE
Minimum leveled power without attenuator class	to -5 dBm (-10 dBm typical)
Minimum leveled power with attenuator class	to -95 dBm
Weight	18 kg maximum
DimensionsHxWxD	133 mm x 429 mm x 450 mm
Remote control	GPIB
Related lower band model	MG3695B 2 to 50 GHz
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Notes
Specs from Anritsu MG3690B Series technical data sheet for MG3696B (2–67 GHz; typical 60–67 GHz power). Confirm installed options (3/4/5/15/16/22/attenuator/modulation), exact max leveled power on the calibration label, andVconnector 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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