

ANRITSU

MG3633A

The Anritsu MG3633A is a high-performance synthesized signal generator designed for the research, development, and production of radio equipment operating in the quasi-microwave band. Covering a wide frequency range from 10 kHz to 2700 MHz, it offers excellent frequency resolution, fast frequency switching, high signal purity, and a maximum output level of +17 dBm. It features versatile modulation capabilities including AM, FM (with a DC-coupled mode for digital transmissions), and phase modulation (øM), alongside carrier, level, and modulation frequency sweep functions.

SPECIFICATIONS

Frequency

Minimum Frequency	10 kHz Hz
Maximum Frequency	2700 MHz Hz
Frequency Resolution	0.01 Hz

Output

Maximum Output Power	+17 dBm dBm
Output Power Range	-143 to +17 dBm

Modulation

Modulation	AM, FM (including DC FM mode), Phase Modulation (øM), and combined modulations
Sweep Modes	Carrier frequency sweep, output level sweep, modulation frequency sweep

General

Reference Oscillator	10 MHz (standard aging rate $\leq 2 \times 10^{-8}$ /day; optional high-stability oscillators available)
Interfaces	GPIO
Display	7-segment green LED digital display with status indicators

Physical

Dimensions (W×H×D)	426 mm × 177 mm × 451 mm mm
Weight	24 kg kg

Sweep and Operating Modes

Function Memory	100 panel settings
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Amplitude Specifications

Output Level Display Units	dBm, dBμV, V, mV, μV, and relative (dB)
Attenuator Type	High-accuracy programmable attenuator

Analog Modulation

Internal AF Oscillator Type	Synthesizer
Internal AF Oscillator Range	0.1 Hz to 100 kHz
FM DC Mode	Supported (simulates digital transmissions for pagers)

RF Output

Output Impedance	50 Ω
Output VSWR	≤ 1.5 (for output levels ≤ 0 dBm)

Spectral Purity

Harmonics	≤ -30 dBc (for output levels ≤ +10 dBm)
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Environmental

Operating Temperature Range	0°C to +50°C
Storage Temperature Range	-20°C to +60°C

Protection

Reverse Power Protection	50 W max. (from 50 Ω source)
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Reference Oscillator

Reference Oscillator Standard Stability	Aging rate ≤ 2 × 10 ⁻⁸ /day
Reference Oscillator Option 01 Stability	Aging rate ≤ 5 × 10 ⁻¹⁰ /day
Reference Oscillator Option 02 Stability	Aging rate ≤ 5 × 10 ⁻⁹ /day

APPLICATIONS

Research, development, and testing of mobile communications in the quasi-microwave band, including digital land-based mobile communications, mobile satellite communications, satellite broadcasting, and wireless LANs.

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.