

ANRITSU

MS2663C

The Anritsu MS2663C is a high-performance spectrum analyzer covering a frequency range from 9 kHz to 8.1 GHz. Designed for the measurement and evaluation of mobile communications radio equipment and spurious frequencies up to three times greater than standard communication bands, it offers excellent C/N ratio, low distortion, high amplitude accuracy, and dedicated evaluation functions such as frequency counter, occupied bandwidth, adjacent channel power, and burst average power.

SPECIFICATIONS

Frequency

Frequency Range	9 kHz to 8.1 GHz
Tuning Resolution	1 Hz

Amplitude

Measurement Range	Displayed average noise level to +30 dBm
Maximum Safe RF Input Power	+30 dBm (average power)
Input Attenuator Steps	10 dB

Bandwidth

Resolution Bandwidth (RBW) Range	1 kHz to 3 MHz
Resolution Bandwidth (RBW) Steps	1-3 sequence

Sweep & Trigger

Sweep Time Range (Span > 0 Hz)	20 ms to 1000 s
Sweep Time Range (Zero Span)	50 us to 1000 s
Sweep Trigger Sources	Free Run, Video, External, Line
Sweep Modes	Single, Continuous

Dynamic Range & Distortion

Input VSWR (< 3.1 GHz)	<= 1.5 (with Atten >= 10 dB)
Input VSWR (3.1 to 8.1 GHz)	<= 2.0 (with Atten >= 10 dB)

Measurement Functions

Frequency Counter Resolution	1 Hz, 10 Hz, 100 Hz, 1 kHz
Occupied Bandwidth Measurement	Calculates 99% (or user-defined %) of total power bandwidth
Adjacent Channel Power Measurement	Calculates ACP ratio for various channel setups
Burst Average Power Measurement	Calculates average power of pulsed or burst carrier signals
Limit Line Testing	PASS/FAIL template decision function
FM Demodulation Waveform Display	Standard function for demodulating and displaying waveforms
Two-screen Display	Standard function supporting simultaneous measurement displays

Inputs & Outputs

RF Input Connector	N-type female
RF Input Impedance	50 ohms nominal
External Trigger Input	BNC female, TTL level
Maximum DC Input Voltage	0 V
Audio Output Connector	3.5 mm monaural jack (internal speaker also built-in)

Power & Environmental

AC Power Voltage Range	100 to 120 V AC / 200 to 240 V AC (autoranging)
AC Power Frequency Range	47.5 to 63 Hz
Power Consumption	<= 150 VA
Storage Temperature Range	-20 to 60 °C
Warm-up Time	30 minutes for specified accuracy

Options & Configurations

Option 01 (High Stability Reference)	Aging +/- 2 x 10 ⁻⁸ / day, +/- 5 x 10 ⁻⁸ / year
Option 02 (Narrow RBW Option)	Adds 30 Hz, 100 Hz, 300 Hz RBW filters
Option 06 (Trigger/Gate Option)	Adds trigger and gate sweep circuitry
Option 08 (Preamplifier Option)	Provides internal preamplifier covering 9 kHz to 3 GHz

Interfaces

GPIB Interface	IEEE-488.2 compliant
RS-232C Interface	D-sub 9-pin

Options

Option 03 (Narrow RBW)	Adds 10 Hz, 30 Hz, 100 Hz, and 300 Hz resolution bandwidth filters
Option 10 (Personal Test Automation - PTA)	Provides built-in high-speed execution of control programs

Sweep

Sweep Time Range (Span > 0 Hz, with Option 04)	20 ms to 1000 s
Sweep Time Range (Zero Span, with Option 04)	12.5 μs to 1000 s

TECHNOLOGY

Superheterodyne Spectrum Analysis

APPLICATIONS

RF and Microwave Signal Analysis

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