

ANRITSU

MS2667C

The Anritsu MS2667C is a compact, lightweight spectrum analyzer covering a frequency range of 9 kHz to 30 GHz. Designed as part of the MS2660 series, it provides high C/N ratio, low distortion, and high frequency and level accuracies, suitable for microwave and millimeter-wave applications.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488.2), RS-232C, Centronics printer interface, PCMCIA Type II slots (x2)
Display	5.5-inch color TFT LCD

Physical

Power Supply	100 to 120 V AC / 200 to 240 V AC (automatic selection), 47.5 to 440 Hz, ≤ 130 VA (without options)
Operating Temperature	0 to 50 °C
Dimensions (W×H×D)	320 x 177 x 351 mm
Weight	15 kg

Frequency Specifications

Frequency Range	9 kHz to 30 GHz
Frequency Span Range	10 kHz to 30 GHz, Zero Span
Frequency Span Accuracy	±2.5% (Span ≥ 100 kHz)
Tuning Resolution	1 Hz
Internal Reference Frequency	10 MHz
Reference Frequency Aging Rate	±1 x 10 ⁻⁶ / year (standard)
Reference Frequency Temperature Stability	±2 x 10 ⁻⁶ (0°C to 50°C)
Noise Sidebands (Phase Noise)	≤ -100 dBc/Hz (10 kHz offset, 1 GHz carrier)

Amplitude Specifications

Maximum Safe Input Level	+30 dBm (1 W continuous wave, with ≥ 10 dB input attenuation)
Maximum DC Input Voltage	0 V DC
Input Attenuator Range	0 to 70 dB
Input Attenuator Step Size	10 dB
Input VSWR (9 kHz to 3.1 GHz)	< 1.5 (with ≥ 10 dB input attenuation)
Input VSWR (3.1 GHz to 30 GHz)	< 2.0 (with ≥ 10 dB input attenuation)
Displayed Average Noise Level (DANL) 10 MHz to 8.1 GHz	≤ -115 dBm (RBW 1 kHz, 0 dB attenuation)
Displayed Average Noise Level (DANL) 8.1 GHz to 18 GHz	≤ -110 dBm (RBW 1 kHz, 0 dB attenuation)
Displayed Average Noise Level (DANL) 18 GHz to 30 GHz	≤ -100 dBm (RBW 1 kHz, 0 dB attenuation)
Second Harmonic Distortion	≤ -70 dBc (mixer level -30 dBm, > 10 MHz to 1.5 GHz)
Third-Order Intermodulation Distortion (TOI)	≤ -75 dBc (two -30 dBm tones at mixer, > 10 MHz to 3.1 GHz)

Bandwidth Specifications

Resolution Bandwidth (RBW) Range	1 kHz to 3 MHz (1, 3 sequence), 5 MHz (standard); 10 Hz to 300 Hz (Option 02)
Resolution Bandwidth (RBW) Selectivity	$< 15:1$ (60 dB : 3 dB bandwidth ratio)

Sweep and Trigger Specifications

Sweep Time Range (Span > 0 Hz)	20 ms to 1000 s
Sweep Time Range (Zero Span)	20 μ s to 1000 s
Sweep Trigger Sources	Free Run, Line, Video, External

Display and Trace Functions

Trace Detectors	Normal, Peak, Sample, Negative Peak
Logarithmic Scale Division	1, 2, 5, 10 dB/div
Linear Scale Division	10% of reference level/div

Measurement Functions

Built-in Measurement Functions	Occupied Bandwidth (OBW), Adjacent Channel Power (ACP), Channel Power, Carrier-to-Noise Ratio (C/N)
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Signal Inputs and Outputs

RF Input Connector Type	K-type female (50 ohms, compatible with SMA)
RF Input Impedance	50 ohms
External Reference Input	10 MHz, -10 dBm to +20 dBm (BNC female)

Environmental and Safety Compliance

Storage Temperature Range	-20°C to +60°C
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Interfaces

PCMCIA Card Slots	2 slots (Type II)
Demodulated Audio Output	Built-in speaker and headphone jack (AM/FM demodulation)

Performance

Calibration Signal Output Frequency	10 MHz
Calibration Signal Output Amplitude	-20 dBm
Reference Level Setting Range (Log Scale)	-100 dBm to +30 dBm

Options

Option 02 Narrow RBW	Adds 30 Hz, 100 Hz, and 300 Hz resolution bandwidths
Option 04 High-Speed GP-IB	Replaces standard GP-IB for high-speed transfer
Option 06 Trigger/Gate Circuit	Provides gate sweep and external trigger functions

Receiver / Front End

Frequency Response (9 kHz to 3.1 GHz)	±1.0 dB
Frequency Response (3.1 GHz to 8.1 GHz)	±1.5 dB
Frequency Response (8.1 GHz to 18 GHz)	±2.5 dB
Frequency Response (18 GHz to 30 GHz)	±3.5 dB
Linear Scale Fidelity	±5% of reference level

Options & Accessories

Option 01 Reference Aging Rate	5×10^{-9} / day (after 24 hours operation)
Option 01 Reference Temperature Stability	$\pm 5 \times 10^{-8}$ (0°C to 50°C, referenced to 25°C)
Option 07 Sweep Time (Zero Span)	12.5 μ s to 1000 s
Option 10 Centronics Interface	Adds parallel printer port
Option 14 PTA	Adds internal controller function for running BASIC programs
Option 15 Sweep Signal Output	Provides Y-axis, sweep, and blanking outputs

Interfaces & Connectivity

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

Data Storage & Memory

Internal Save/Recall Capacities	Up to 12 traces and 12 setups
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Signal Analysis

Standard Demodulation	AM and FM (audio output)
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Environmental

Operating Humidity	≤ 85% RH (non-condensing)
Vibration Resistance	4.9 m/s ² (10 Hz to 150 Hz)

TECHNOLOGY

Superheterodyne Spectrum Analyzer

APPLICATIONS

Microwave and Millimeter-Wave RF Testing, Signal Analysis

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