

ANRITSU

MS2683A

The Anritsu MS2683A is a high-performance spectrum analyzer operating from 9 kHz to 7.8 GHz, designed for evaluating next-generation radio communication systems and devices. It features a wide standard resolution bandwidth of up to 20 MHz, high-speed sweep capabilities, and support for dedicated modulation analysis software.

SPECIFICATIONS

General

Interfaces	GPIB, RS-232C
Display	Color TFT LCD

Physical

Power Supply	100 to 120 V AC / 200 to 240 V AC, 47.5 to 63 Hz
Operating Temperature	0°C to +50°C °C
Dimensions (W×H×D)	320 mm × 177 mm × 350 mm mm
Weight	15 kg kg

Frequency Specifications

Frequency Range	9 kHz to 7.8 GHz
Resolution Bandwidth (RBW) Range	10 Hz to 20 MHz

Sweep & Trigger Specifications

Sweep Refresh Rate	20 times/s
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Amplitude Specifications

Typical Dynamic Range	156 dB
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Inputs & Outputs (Interfaces)

GPIB Transmission Speed	120 KBytes/s
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Measurement Capabilities & Functions

W-CDMA Modulation Analysis Time	1.5 s (with optional software)
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RF Input

RF Input Connector	N (female), 50 Ω nominal
Input Attenuator Range	0 to 70 dB in 10 dB steps
Maximum Safe RF Input	+30 dBm (1 W) average power, 0 V DC

Sweep

Sweep Time (Span ≥ 10 Hz)	20 ms to 1000 s
Sweep Time (Zero Span)	50 μs to 1000 s

Frequency

Internal Reference Frequency	10 MHz
Frequency Resolution	1 Hz
Frequency Reference Aging Rate (Standard)	$\pm 1 \times 10^{-6}$ /year
Frequency Reference Aging Rate (with Option 02)	$\pm 5 \times 10^{-10}$ /day

Amplitude

Reference Level Range	-100 to +30 dBm
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Storage

Memory Card Slots	PCMCIA Type II (2 slots)
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Inputs & Outputs

Input Impedance	50 Ω
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Performance

SSB Phase Noise (1 GHz, 10 kHz offset)	≤ -115 dBc/Hz
1 dB Gain Compression	≥ 0 dBm (mixer input, >200 MHz)
Trigger Source	Free Run, Video, Line, External, Frame
Preselector	3.0 GHz to 7.8 GHz (built-in)

TECHNOLOGY

Heterodyne Spectrum Analysis

APPLICATIONS

Wireless Communication Transmitter Testing and Modulation 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.