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Data Sheet

August 14, 2026

ANRITSU

Anritsu MS2711B Handheld Spectrum Analyzer 3GHz

Attenuator Range: 0 to 50 dB in 10 dB steps Operating Temperature: 0 C to 50 C, humidity 85 percent or less External DC Input: plus 12.5 to plus 15 VDC, 1100 mA maximum From Anritsu MS2711B OEM specifications. Option 8 preamp improves DANL and measurement range as published on the option sheet. Operating Temperature: 0 C to 50 C, humidity 85 percent or less External DC Input: plus 12.5 to plus 15 VDC, 1100 mA maximum From Anritsu MS2711B OEM specifications. Option 8 preamp improves DANL and measurement range as published on the option sheet.



MODEL

Anritsu MS2711B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MS2711B

LISTING

<https://aumictechlabs.com/products/ms2711b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MS2711B is a portable spectrum analyzer designed for field use, offering comprehensive measurement capabilities in a rugged, lightweight, battery-operated form factor. This instrument operates within a frequency range of 100 kHz to 3 GHz, making it suitable for testing and maintaining a variety of wireless communication systems, broadcast equipment, and other RF devices. Its design prioritizes mobility and ease of use, enabling technicians and engineers to conduct spectrum analysis measurements effectively in diverse environments.

without requiring immediate AC/DC power access. Technical Specifications

Frequency *
Frequency Range: 100 kHz to 3.0 GHz Frequency Reference Aging: +1 ppm/yr Frequency Reference Accuracy: +2 ppm Frequency Span: 1 kHz to 3 GHz in 1, 2, 5 step selections in auto mode, plus zero span Minimum Resolution Bandwidth (RBW): 10 kHz Available RBWs: 10 kHz, 30 kHz, 100 kHz, 1 MHz Video Bandwidth (VBW): 100 Hz to 300 kHz in 1-3 sequence Available VBWs: 3 kHz, 10 kHz, 30 kHz, 300 kHz SSB Phase Noise: ≤ -74 dBc/Hz @ 30 kHz Offset Amplitude *

Displayed Average Noise Level: * ≤ -115 dBm (1 MHz, typical with preamplifier on) * ≤ -95 dBm (500 kHz, typical with preamplifier off) * ≤ -80 dBm (< 500 kHz, typical with preamplifier off)

Measurement Range: -90 dBm to +20 dBm Signal Detector Range: -50 to +20 dBm Dynamic Range: ≥ 60 dB Dynamic Range: > 65 dB Amplitude Accuracy: ± 1.5 dB Total Level Accuracy: ± 2 dB Total Level Accuracy: ± 2 dB, = 500 kHz, typical Total Level Accuracy: ± 3 dB, < 500 kHz, typical

Maximum Measurable Safe Input: +20 dBm Maximum Safe Input Level: +23 dBm, ± 50 Vdc Maximum Safe Input Level: +13 dBm, ± 50 Vdc, maximum without damage Attenuator Range: 0 to 50 dB, manual or automatic Reference Level Offset: Available Sweep Characteristics *

Sweep Time: ≤ 6500 ms full span; 510 ms zero span Interfaces * RF Input Connector: Type N Female, 50 Ohm RF Input VSWR: 2.0:1 RS-232 Interface: 9-pin D-sub, three-wire serial Baud Rate: 9600, 19.2k, 38.4k, 56k, 115.2k Baud Printer Interface Drivers: Epson ESC/P, Epson ESC/P RAST, Epson ESC/P2, HP PCL3 50 Ohm Interface: Standard, with 75 Ohm interface capability (instrument internally corrects for adapter loss) Demodulation and Analysis *

AM/FM Demodulator: Built-in for testing and troubleshooting wireless communications systems Internal Speaker/Headset Jack: For audio interpretation of signals Marker Functions: Up to six individual markers can be displayed simultaneously; includes standard, delta, marker to peak, and marker to center Limit Line Capability: Single and segmented limit lines for pass/fail measurements Trace Averaging: Built-in for noise reduction Trace Overlay: Ability to visually compare a current trace against a stored reference trace One-Button Measurements: Dedicated functions for channel power, adjacent channel power ratio, and occupied bandwidth Field Strength Measurement: Available for propagation and coverage analysis, or pinpointing electromagnetic leakage Spurious Measurements: Capability for analyzing wireless base station transmitters

Optional Features *

Tracking Generator (Option 20): Scalar analysis capability from 10 MHz to 3 GHz * Tracking Generator Output Power Range: -60 to 0 dBm * Tracking Generator Output Power Level Resolution: 0.1 dB * Tracking Generator Absolute Level Accuracy: ± 1.5 dB (0 to -40 dBm), ± 4.0 dB (-40 dBm to -60 dBm) * Tracking Generator Output Tracking VSWR: <2.0:1 (<0 dBm) Preamplifier (Option 8): Built-in 20 dB preamplifier for broadband coverage from 1 MHz to 3.0 GHz * Sensitivity with Preamplifier: Extended to -115 dBm RF Wattmeter Power Monitor (Option 5): Precision detectors with high return loss (low SWR) * Measurement Range: -50 to +20 dBm (10.0 nW to 100.0 mW) Memory and Storage *

Trace Storage: Up to 200 measurement traces internally Test Setup Storage: Ten test setups for fast repeatable testing Alphanumeric Labeling: For measurement data Automatic Time and Date Stamp: For data management Physical Ch

MS2711B Characteristics / Specifications

PARAMETER	VALUE
Frequency Range	100 kHz to 3.0 GHz
Frequency Reference Aging	plus or minus 1 ppm per year
Frequency Reference Accuracy	plus or minus 2 ppm
Frequency Span	100 kHz to 3 GHz in 1 2 5 step selections in auto mode plus zero span
Sweep Time Full Span	greater than or equal to 6500 ms
Sweep Time Zero Span	500 ms
Resolution Bandwidth 3 dB	10 kHz 30 kHz 100 kHz 1 MHz plus or minus 20 percent
Video Bandwidth Range 3 dB	100 Hz to 300 kHz in 1 3 sequence
SSB Phase Noise At 30 kHz Offset	less than or equal to minus 75 dBc/Hz
Spurious Responses Input Related	less than or equal to minus 45 dBc
Spurious Residual Responses	less than or equal to minus 95 dBm at greater than or equal to 500 kHz
Measurement Range Standard	minus 95 dBm to 20 dBm at greater than or equal to 300 kHz
DANL Typical Greater Equal 300 kHz	less than or equal to minus 95 dBm
DANL Typical Below 299 kHz	less than or equal to minus 80 dBm
Dynamic Range Typical	greater than 65 dB
Total Level Accuracy Typical Greater Equal 200 kHz	plus or minus 2 dB for levels greater than or equal to minus 60 dBm
Display Range	2 to 15 dB per division in 1 dB steps, ten divisions
Attenuator Range	0 to 50 dB in 10 dB steps
RF Input VSWR	2.0:1
Internal Trace Memory	200 maximum
Operating Temperature	0 C to 50 C, humidity 85 percent or less
External DC Input	plus 12.5 to plus 15 VDC, 1100 mA maximum
Bandwidth	3 dB: 10 kHz 30 kHz 100 kHz 1 MHz plus or minus 20 percent
Humidity	85 percent or less

MS2711B Specifications

PARAMETER	VALUE
Anritsu MS2711B Handheld Spectrum Analyzer	Overview
Optional preamp for improved DANL	RS 232 remote interface
Technical Specifications	Frequency Range: 100 kHz to 3.0 GHz
Notes	From Anritsu MS2711B OEM specifications. Option 8 preamp improves DANL and measurement range as published on the option sheet.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 C to 50 C, humidity 85 percent or less
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Humidity	85 percent or less
External DC Input	plus 12.5 to plus 15 VDC, 1100 mA maximum Notes From Anritsu MS2711B OEM specifications. Option 8 preamp improves DANL and measurement range as published on the option sheet.

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 list SSB phase noise of less than or equal to minus 75 dBc/Hz at 30 kHz offset, DANL of less than or equal to minus 95 dBm typical above 300 kHz, and greater than 65 dB typical dynamic range.

Applications

Locating interfering signals, installing and maintaining wireless infrastructure, and portable spectrum surveys.

Key Features

Handheld battery operated spectrum analyzer

Zero span and full span sweep

Optional preamp for improved DANL

RS 232 remote interface

Rugged field form factor

Technical Specifications

Technical Specifications

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DANL Typical Greater Equal 300 kHz	less than or equal to minus 95 dBm
DANL Typical Below 299 kHz	less than or equal to minus 80 dBm
Dynamic Range Typical	greater than 65 dB

Total Level Accuracy Typical Greater Equal 200 kHz: plus or minus 2 dB for levels greater than or equal to minus 60 dBm

Specifications

PARAMETER	VALUE
Display Range	2 to 15 dB per division in 1 dB steps, ten divisions
Attenuator Range	0 to 50 dB in 10 dB steps
RF Input VSWR	2.0:1
Internal Trace Memory	200 maximum
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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

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.