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Data Sheet

August 14, 2026

ANRITSU

Anritsu MS9710C Optical Spectrum Analyzer

The Anritsu MW9710C (MS9710C) is an optical spectrum analyzer used for measuring the characteristics of optical signals. It analyzes wavelength, optical power, and spectral shape in optical communication systems and optical devices. This analyzer is known for its high resolution, wide dynamic range, and accurate measurements, making it suitable for R&D and manufacturing environments.



MODEL

**Anritsu
MW9710C/MS9710C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MW9710C/MS9710C

LISTING

<https://aumictechlabs.com/products/mw9710c-ms9710c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MW9710C (MS9710C) Optical Spectrum Analyzer (OSA) is a diffraction-grating type instrument designed for comprehensive analysis of optical signal characteristics across a broad wavelength range. It is engineered to provide precise measurements of wavelength, optical power, and spectral shape, making it a critical tool for R&D, manufacturing, and quality control in optical communication systems and device development. This analyzer is recognized for its enhanced performance over its predecessor, the MS9710B, offering improvements in wavelength accuracy, resolution bandwidth, and signal-to-noise ratio (SNR) averaging. Technical Specifications Wavelength Range: 600 to 1750 nm Dynamic Range: Typically 45 dB at 0.2 nm from the signal peak with a 50 pm RBW setting Greater than 42 dB at 0.2 nm from the peak wavelength Minimum of 58 dB at 0.4 nm from the peak wavelength Up to 70 dB at 1 nm from the peak

wavelength Greater than 50 dB at 50 GHz (0.4 nm) channel spacing when RBW is 0.1 nm or greater High-dynamic range mode: up to 70 dB Wavelength Accuracy: Post-calibration accuracy can be better than ± 20 pm when using an optional internal reference wavelength light source With Option 15 (L-band enhancement): improves wavelength accuracy in the 1570 to 1620 nm region 50 pm (1530–1570 nm) for MS9710B; 20 pm (1530–1570 nm) for MS9710C 50 pm (1520–1600 nm) for MS9710B; 20 pm (1520–1620 nm) for MS9710C ± 300 pm (600 to 1750 nm) ± 20 pm (1530 to 1570 nm) for Wavelength Linearity Resolution Bandwidth (RBW): Maximum RBW is 50 pm for the MS9710C Improved resolution bandwidth compared to MS9710B Level Accuracy: ± 0.4 dB (1300/1550 nm, input: -23 dBm, resolution: ≥ 0.1 nm) $\pm 2.2\%$ (1530 to 1570 nm, resolution: 0.5 nm) $\pm 3\%$ (1530 to 1570 nm, resolution: 0.2 nm) $\pm 2.2\%$ (1520 to 1620 nm, resolution: 0.5 nm) $\pm 5\%$ (1520 to 1530 nm, 1570 to 1620 nm, resolution: 0.2 nm) $\pm 7\%$ (1600 to 1520 nm, 1620 to 1750 nm, resolution: 0.5 nm) $\pm 10\%$ (1520 to 1530 nm, 1570 to 1620 nm, resolution: 0.1 nm) Level Linearity: ± 0.05 dB (1550/1600 nm, -50 to 0 dBm, optical ATT: off) ± 0.05 dB (1550 nm, -30 to $+20$ dBm, optical ATT: on) Polarization Dependency: Less than 0.05 dB (PDL < 0.05 dB) when RBW is 0.1 nm or greater ± 0.05 dB (1550/1600 nm) Optical Input Sensitivity: -65 to $+10$ dBm (600 to 1000 nm, 0 to $+30^\circ\text{C}$, optical ATT: off) -85 to $+10$ dBm (1000 to 1250 nm, 0 to $+30^\circ\text{C}$, optical ATT: off) -90 to $+10$ dBm (1250 to 1600 nm, 0 to $+30^\circ\text{C}$, optical ATT: off) Signal-to-Noise Ratio (SNR) Measurement: Improved SNR measurement with left and right noise floor averaging Accurate SNR measurements with errors less than 0.2 dB Noise level is standardized per nm by dividing by the selected RBW Measurement Capabilities: Wavelength, power level, and SNR for up to 300 DWDM channels PMD (Polarization Mode Dispersion) measurements EDFA (Erbium-Doped Fiber Amplifier) noise floor and gain measurements Measurement of transmission characteristics of passive elements (e.g., optical isolators) LD and LED spectra measurements SMSR (Single Mode Shandong Ratio) analysis OBPF (Optical Bandpass Filter) testing Waveform analysis of WDM Systems Internal Functions & Options: Tunable Laser Source (TLS) tracking function (eliminates need for external controller) Optional built-in light sources: SLD, white light, reference wavelength light sources Internal reference wavelength light source for automatic calibration Built-in attenuator for high power optical input Option 15: L-band enhancement for improved performance in the 1570 to 1620 nm region Option 13: Includes wavelength reference and SLD light source Interfaces: GPIB interface bus (standard) RS-232C interface (standard) VGA output connector Physical: Diffraction grating spectrum analyzer Why Choose Aumictech for Anritsu MW9710C (MS9710C)? At Aumictech, we specialize in supplying high-end optical test and measurement equipment. Whether you need precise spectral analysis for advanced communication systems, reliable characterization of optical de

Features & description

From manufacturer datasheet

Polarization Dependence Class: Specified PDL related uncertainty class

Wavelength Repeatability Class: High repeatability tuning Level Linearity Class: Specified linearity

Operating Temperature Class: Standard lab Series Family: Anritsu MS9710C

MW9710CMS9710C Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Diffraction grating optical spectrum analyzer
Wavelength Range Class	600 nm to 1750 nm class family coverage
Wavelength Accuracy Class	High accuracy OSA class
Resolution Bandwidth Class	Multiple RBW settings down to 0.05 nm class family
Dynamic Range Class	High dynamic range close in and wide span
Level Sensitivity Class	High sensitivity photodetector path
Level Accuracy Class	Calibrated optical level accuracy
Sweep Modes	Continuous and single sweep
Markers	Multi marker with wavelength level delta
Analysis Functions	SMSR WDM OSNR class analysis
Input Connector Class	Fiber optic input with adapter
Remote Interface	GPIB
Display	Color OSA display class
Form Factor	Benchtop OSA
Polarization Dependence Class	Specified PDL related uncertainty class
Wavelength Repeatability Class	High repeatability tuning
Level Linearity Class	Specified linearity
Operating Temperature Class	Standard lab
Series Family	Anritsu MS9710C
Applications Class	DWDM and laser characterization
Calibration	Wavelength and level calibration support
Internal Memory	Trace save recall class
Wavelength range	Class: 600 nm to 1750 nm class family coverage
Bandwidth	Class: Multiple RBW settings down to 0.05 nm class family
Wavelength repeatability	Class: High repeatability tuning

PARAMETER	VALUE
Operating temperature	Class: Standard lab

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Standard lab
Operating Temperature	Class: Standard lab
Operating Temperature Class	Standard lab
Series Family	Anritsu MS9710C
Applications Class	DWDM and laser characterization
Calibration	Wavelength and level calibration support
Internal Memory	Trace save recall class Notes From Anritsu MS9710C OEM/family OSA documentation. Confirm exact wavelength span, RBW set, and dynamic-range deltas on the unit datasheet. Queue also lists combined MW9710C/MS9710C naming.

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	
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PARAMETER	VALUE
Instrument Type	Diffraction grating optical spectrum analyzer
Wavelength Range Class	600 nm to 1750 nm class family coverage
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Markers	Multi marker with wavelength level delta
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Input Connector Class	Fiber optic input with adapter
Remote Interface	GPIO
Display	Color OSA display class
Form Factor	Benchtop OSA
Polarization Dependence Class	Specified PDL related uncertainty class
Wavelength Repeatability Class	High repeatability tuning
Level Linearity Class	Specified linearity
Operating Temperature Class	Standard lab
Series Family	Anritsu MS9710C
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Notes	
From Anritsu MS9710C OEM/family OSA documentation. Confirm exact wavelength span, RBW set, and dynamic-range deltas on the unit datasheet. Queue also lists combined MW9710C/MS9710C naming.	

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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NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
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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.