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Data Sheet

August 14, 2026

ANRITSU

Anritsu MS9720B 16" Optical Spectrum Analyzer

Anritsu MS9720B Optical Spectrum Analyzer The Anritsu MS9720B is a benchtop optical spectrum analyzer for wide-span optical spectral measurements. OEM MS9720 family documentation lists diffraction-grating architecture, selectable resolution bandwidth, and calibrated level measurements for telecom and component test. Wide-span laser and WDM spectral characterization and optical component qualification. Instrument Type: Diffraction grating optical spectrum analyzer The Anritsu MS9720B is a benchtop optical spectrum analyzer for wide-span optical spectral measurements. OEM MS9720 family documentation lists diffraction-grating architecture, selectable resolution bandwidth, and calibrated level measurements for telecom and component test. Wide-span laser and WDM spectral characterization and optical component qualification. Instrument Type: Diffraction grating optical spectrum analyzer Wavelength Range Class: Wide span OSA coverage class per MS9720B datasheet



MODEL

Anritsu MS9720B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MS9720B

LISTING

<https://aumictechlabs.com/products/ms9720b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MS9720B is a optical spectrum analyzer engineered for precise characterization of optical devices and WDM systems. Operating across the C-band, it delivers 58 dB dynamic range, -87 dBm sensitivity, and 0.03 nm minimum resolution bandwidth for detailed spectral analysis.

Built-in acetylene calibration and an integrated SLD light source enable automated wavelength accuracy to ± 20 pm, while multi-channel WDM analysis, NF measurement, PMD calculation, and SMSR capabilities address demanding R&D, manufacturing, and quality control workflows in optical communications. Technical Specifications Wavelength Performance Wavelength range: 1450 nm to 1650 nm Wavelength accuracy: ± 20 pm (1530–1570 nm with reference source) Minimum resolution bandwidth: 0.03 nm Dynamic range: 58 dB at 1 nm from signal Optical sensitivity: -87 dBm Maximum input level: +30 dBm (attenuator ON) Internal Light Source Type: SLD (Super Luminescent Diode) Output spectrum: 1450 nm to 1650 nm Output level: -40 dBm minimum (1 nm RBW at 1550 nm) Measurement Functions WDM analysis: Up to 128 channels with peak wavelength, level, and SNR per channel NF measurement: ASE calculation using interpolation and level-fitting methods PMD calculation: Fixed-analysis function for Polarization Mode Dispersion SMSR measurement: Signal-to-Modulation Side-Band Ratio analysis System Interface Wavelength calibration: Automatic via acetylene absorption spectrum Monitor output: VGA connector Communication: GPIB and RS-232C Data storage: 3.5-inch floppy disk drive Environmental Operating temperature: 0°C to +50°C Storage temperature: -20°C to +60°C Relative humidity: $\leq 90\%$ (non-condensing) Power: 85–132 Vac / 172–250 Vac, 47.5–63 Hz, 150 VA max Dimensions: 320 (W) $\times$ 177 (H) $\times$ 350 (D) mm Key Features Automatic wavelength calibration eliminates manual reference procedures Integrated SLD source simplifies benchtop deployment and reduces external component requirements 58 dB dynamic range resolves weak sidebands and noise floor analysis in complex spectra Sub-0.1 nm resolution bandwidth enables detailed modulation sideband characterization Typical Applications WDM system development and channel verification across C-band Optical amplifier performance assessment and ASE noise profiling Laser and light source spectral purity validation Transmission system commissioning and field troubleshooting Compatibility & Integration GPIB and RS-232C interfaces enable automated test sequences and remote instrument control. Legacy data archival through floppy disk drive supports legacy workflows; measurement files integrate with instrument automation platforms via standard communication protocols.

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 MS9720B

MS9720B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Diffraction grating optical spectrum analyzer
Wavelength Range Class	Wide span OSA coverage class per MS9720B datasheet
Wavelength Accuracy Class	High accuracy OSA class
Resolution Bandwidth Class	Multiple RBW settings class
Dynamic Range Class	High dynamic range OSA class
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	Peak SMSR WDM class analysis
Input Connector Class	Fiber optic input with adapter
Remote Interface	GPIB
Display	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 MS9720B
Applications Class	Wide span optical spectral characterization
Calibration	Wavelength and level calibration support
Internal Memory	Trace save recall class
Wavelength range	Class: Wide span OSA coverage class per MS9720B datasheet
Bandwidth	Class: Multiple RBW settings class
Wavelength repeatability	Class: High repeatability tuning

PARAMETER	VALUE
Operating temperature	Class: Standard lab

MS9720B Specifications

PARAMETER	VALUE
Anritsu MS9720B Optical Spectrum Analyzer	Overview
Technical Specifications	Instrument Type: Diffraction grating optical spectrum analyzer
Notes	From Anritsu MS9720B OEM/family OSA documentation. Confirm exact wavelength span and RBW set on the unit datasheet.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Standard lab
Operating Temperature	Class: Standard lab
Operating Temperature Class	Standard lab
Series Family	Anritsu MS9720B
Applications Class	Wide span optical spectral characterization
Calibration	Wavelength and level calibration support
Internal Memory	Trace save recall class Notes From Anritsu MS9720B OEM/family OSA documentation. Confirm exact wavelength span and RBW set on the unit datasheet.

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	
Specifications	
PARAMETER	VALUE
Instrument Type	Diffraction grating optical spectrum analyzer
Wavelength Range Class	Wide span OSA coverage class per MS9720B datasheet
Wavelength Accuracy Class	High accuracy OSA class
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Sweep Modes	Continuous and single sweep
Markers	Multi marker with wavelength level delta
Analysis Functions	Peak SMSR WDM class analysis
Input Connector Class	Fiber optic input with adapter
Remote Interface	GPIOB
Display	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 MS9720B
Applications Class	Wide span optical spectral characterization
Calibration	Wavelength and level calibration support
Internal Memory	Trace save recall class
Notes	
From Anritsu MS9720B OEM/family OSA documentation. Confirm exact wavelength span and RBW set on the unit datasheet.	

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.