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Data Sheet

August 14, 2026

ANRITSU

Anritsu MS9701C Optical Spectrum Analyzer

Anritsu MS9701C Optical Spectrum Analyzer The Anritsu MS9701C is a benchtop optical spectrum analyzer in the MS970x family for telecom and component spectral measurements. OEM MS9700-series documentation lists diffraction-grating architecture, selectable resolution bandwidth, and calibrated optical level measurements. Laser spectra, WDM channel checks, and optical component spectral characterization. Instrument Type: Diffraction grating optical spectrum analyzer The Anritsu MS9701C is a benchtop optical spectrum analyzer in the MS970x family for telecom and component spectral measurements. OEM MS9700-series documentation lists diffraction-grating architecture, selectable resolution bandwidth, and calibrated optical level measurements. Laser spectra, WDM channel checks, and optical component spectral characterization. Instrument Type: Diffraction grating optical spectrum analyzer Wavelength Range Class: Visible to IR telecom coverage class per MS9701C datasheet



MODEL

Anritsu MS9701C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MS9701C

LISTING

<https://aumictechlabs.com/products/ms9701c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MS9701C is a optical spectrum analyzer engineered for precise spectral characterization across 600 nm to 1750 nm, with enhanced performance in the L-band region (1570 nm to 1620 nm). It delivers wavelength, power level, and SNR measurements for up to 300

DWDM channels, along with PMD and EDFA noise floor analysis. The instrument measures laser diode and LED spectra, passive optical element transmission characteristics, and noise figure plus gain of optical fiber amplifier systems. A built-in tunable laser source tracking function eliminates the need for external controllers, while optional internal light sources - including SLD, white light, and reference wavelength sources - streamline measurement workflows. The MS9701C succeeds the MS9710B with upgraded wavelength accuracy, improved resolution bandwidth, enhanced SNR measurement via left and right noise floor averaging, and wide dynamic range. High reception sensitivity and a proprietary diffraction grating deliver reliable performance and exacting level and wavelength specifications across the WDM band. Built-in attenuator accommodates high-power optical inputs. Option 15 specifically optimizes wavelength accuracy, resolution, power level flatness, and linearity for the 1570 nm to 1620 nm L-band region. Remote control operation integrates with external controllers for automated measurement sequences.

Technical Specifications
Wavelength Range: 600 nm to 1750 nm L-Band Performance: Enhanced specifications for 1570 nm to 1620 nm region
DWDM Channel Analysis: Wavelength, power level, and SNR measurement of up to 300 channels
Measurement Functions: PMD, EDFA noise floor, laser diode and LED spectra, passive optical element transmission, noise figure, and gain of optical amplifiers
Key Features High wavelength accuracy with improved resolution bandwidth Signal-to-noise measurement with left and right noise floor averaging Built-in tunable laser source tracking for integrated measurement control Built-in attenuator for high-power optical input handling
Optional internal light sources: SLD, white light, and reference wavelength sources One-button calibration via internal reference wavelength source Wide dynamic range and high reception sensitivity Proprietary diffraction grating for reliability and performance across WDM bands
Option 15 optimization for L-band wavelength accuracy, resolution, power flatness, and linearity
Typical Applications Optical communication system characterization DWDM channel analysis and validation Optical fiber amplifier performance assessment Laser diode and LED spectral measurement Passive optical component transmission analysis Research and development in photonics
Compatibility & Integration Remote control operation via external controller or computer interface Anritsu tunable laser source integration without external controller requirement

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 MS9701C

MS9701C Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Diffraction grating optical spectrum analyzer
Wavelength Range Class	Visible to IR telecom coverage class per MS9701C 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 MS9701C
Applications Class	Laser and WDM spectral characterization
Calibration	Wavelength and level calibration support
Internal Memory	Trace save recall class
Wavelength range	Class: Visible to IR telecom coverage class per MS9701C datasheet
Bandwidth	Class: Multiple RBW settings class
Wavelength repeatability	Class: High repeatability tuning

PARAMETER	VALUE
Operating temperature	Class: Standard lab

MS9701C Specifications

PARAMETER	VALUE
Anritsu MS9701C Optical Spectrum Analyzer	Overview
Technical Specifications	Instrument Type: Diffraction grating optical spectrum analyzer
Notes	From Anritsu MS9701C 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 MS9701C
Applications Class	Laser and WDM spectral characterization
Calibration	Wavelength and level calibration support
Internal Memory	Trace save recall class Notes From Anritsu MS9701C 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
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Wavelength Accuracy Class	High accuracy OSA class
Resolution Bandwidth Class	Multiple RBW settings class
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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	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 MS9701C
Applications Class	Laser and WDM spectral characterization
Calibration	Wavelength and level calibration support
Internal Memory	Trace save recall class
Notes	
From Anritsu MS9701C 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.