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Data Sheet

August 14, 2026

ANRITSU

Anritsu MS9700A – Optical Spectrum Analyzer

Anritsu MS9700A Optical Spectrum Analyzer The Anritsu MS9700A is a diffraction-grating optical spectrum analyzer in the MS9700 family covering the 600 to 1750 nm class for optical component and WDM analysis. OEM MS9710-family tables publish wide wavelength coverage, fine RBW settings, and high dynamic range for WDM analysis; model-specific rows should be confirmed on the unit datasheet. DWDM channel analysis, laser spectra, EDFA measurements, and optical component qualification. Wavelength Range Class: 600 to 1750 nm class family coverage The Anritsu MS9700A is a diffraction-grating optical spectrum analyzer in the MS9700 family covering the 600 to 1750 nm class for optical component and WDM analysis. OEM MS9710-family tables publish wide wavelength coverage, fine RBW settings, and high dynamic range for WDM analysis; model-specific rows should be confirmed on the unit datasheet. DWDM channel analysis, laser spectra, EDFA measurements, and optical component qualification. Wavelength Range Class: 600 to 1750 nm class family coverage Wavelength Accuracy Class: plus or minus 20 pm class in C-band (family)



MODEL

Anritsu MS9700A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MS9700A

LISTING

<https://aumictechlabs.com/products/ms9700a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Anritsu MS9700A is an Optical Spectrum Analyzer engineered for optical spectrum analysis across R&D, manufacturing, and maintenance applications. It delivers precise wavelength

measurement and dynamic range performance critical for optical communication systems, WDM systems, and optical device characterization. The instrument combines high-resolution spectral analysis with fast measurement capabilities, user-configurable bandwidth settings, and multi-connector optical input flexibility to support diverse measurement requirements in laboratory and production environments.

Technical Specifications

- Wavelength Measurement Range: 600 nm to 1750 nm (expandable bands available)
- Wavelength Accuracy: ± 20 pm (1520–1620 nm); ± 50 pm (1530–1570 nm)
- Resolution Bandwidth: Minimum 30 pm with selectable resolutions of 0.03, 0.05, 0.07, 0.1, 0.2, 0.5, and 1.0 nm
- Dynamic Range: ≥ 60 dB (0.4 nm from peak wavelength)
- Optical Reception Sensitivity: -87 dBm noise floor
- Measurement Speed: < 0.2 s for passive optical devices (5 nm span); up to 0.35 s for 30 nm wavelength sweep in Fast mode

Key Features

- Built-in wavelength reference light source for ± 20 pm accuracy (1530–1570 nm)
- User-replaceable optical connectors: FC, SC, ST, and DIN types
- VGA output connector for external display integration
- GPIB interface for remote control and automated data transfer
- Selectable resolution bandwidth for optimized signal-to-noise performance across measurement ranges

Typical Applications

- WDM system validation and troubleshooting
- Optical device characterization in R&D environments
- Manufacturing quality assurance for optical components
- Optical communication system performance analysis
- Passive optical device measurement and verification

Compatibility & Integration

Multi-connector optical input accommodates standard industry connector types. GPIB control enables integration into automated test systems. VGA output supports real-time waveform monitoring on external displays.

Features & description

From manufacturer datasheet

Polarization Dependency Class: plus or minus 0.05 to 0.1 dB class family

Optical Return Loss Class: greater than or equal to 35 dB class Sweep Width Class: up to 1200 nm class Display Class: color TFT OSA display Interfaces Class: GPIB RS-232 Applicable Fiber Class: SMF 10/125 um Operating Temperature Class: 0 to 50 C class Power Class: AC mains OSA Form Factor: benchtop OSA / module per model Analysis Functions: SMSR WDM OSNR class Brand: Anritsu Series Family: MS9700 / MS9710 Level Sensitivity Class: high-sensitivity photodetector path Level Accuracy Class: calibrated optical level accuracy Sweep Modes: continuous and single Calibration: wavelength and level calibration support Faceplate Confirm Class: confirm exact model row on unit datasheet Notes From Anritsu MS9710/MS9700 family OSA literature. Model-specific accuracy and dynamic-range deltas belong on the exact model datasheet.

MS9700A Characteristics / Specifications

PARAMETER	VALUE
Wavelength Range Class	600 to 1750 nm class family coverage
Wavelength Accuracy Class	plus or minus 20 pm class in C-band (family)
Resolution Settings Class	0.05 to 1.0 nm class family
Dynamic Range High Mode Class	70 dB at 1 nm from peak class family
Polarization Dependency Class	plus or minus 0.05 to 0.1 dB class family
Optical Return Loss Class	greater than or equal to 35 dB class
Sweep Width Class	up to 1200 nm class
Display Class	color TFT OSA display
Interfaces Class	GPIB RS-232
Applicable Fiber Class	SMF 10/125 um
Operating Temperature Class	0 to 50 C class
Power Class	AC mains OSA
Form Factor	benchtop OSA / module per model
Analysis Functions	SMSR WDM OSNR class
Brand	Anritsu
Series Family	MS9700 / MS9710
Level Sensitivity Class	high-sensitivity photodetector path
Level Accuracy Class	calibrated optical level accuracy
Sweep Modes	continuous and single
Calibration	wavelength and level calibration support
Faceplate Confirm Class	confirm exact model row on unit datasheet
Wavelength range	Class: 600 to 1750 nm class family coverage
Optical Return Loss	Class: greater than or equal to 35 dB class
Operating temperature	Class: 0 to 50 C class
Return loss	Class: greater than or equal to 35 dB class

MS9700A Specifications

PARAMETER	VALUE
Anritsu MS9700A Optical Spectrum Analyzer	Overview
Technical Specifications	Wavelength Range Class: 600 to 1750 nm class family coverage
Notes	From Anritsu MS9710/MS9700 family OSA literature. Model-specific accuracy and dynamic-range deltas belong on the exact model datasheet.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 to 50 C class
Operating Temperature	Class: 0 to 50 C class
Operating Temperature Class	0 to 50 C class
Power Class	AC mains OSA
Form Factor	benchtop OSA / module per model
Analysis Functions	SMSR WDM OSNR class
Brand	Anritsu
Series Family	MS9700 / MS9710
Level Sensitivity Class	high-sensitivity photodetector path
Level Accuracy Class	calibrated optical level accuracy
Sweep Modes	continuous and single
Calibration	wavelength and level calibration support
Faceplate Confirm Class	confirm exact model row on unit datasheet Notes From Anritsu MS9710/MS9700 family OSA literature. Model-specific accuracy and dynamic-range deltas belong on the exact model 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
Wavelength Range Class	600 to 1750 nm class family coverage
Wavelength Accuracy Class	plus or minus 20 pm class in C-band (family)
Resolution Settings Class	0.05 to 1.0 nm class family
Dynamic Range High Mode Class	70 dB at 1 nm from peak class family
Dynamic Range Close-In Class: 42 dB at 0.2 nm from peak class family	
Specifications	
PARAMETER	VALUE
Polarization Dependency Class	plus or minus 0.05 to 0.1 dB class family
Optical Return Loss Class	greater than or equal to 35 dB class
Sweep Width Class	up to 1200 nm class
Display Class	color TFT OSA display
Interfaces Class	GPIO RS-232
Applicable Fiber Class	SMF 10/125 um
Operating Temperature Class	0 to 50 C class
Power Class	AC mains OSA
Form Factor	benchtop OSA / module per model
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Notes	
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the exact model 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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NIST-traceable calibration · SAM registered ·
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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.