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**Data Sheet**

August 14, 2026

ANRITSU

## Anritsu MS9717A

Anritsu MS9717A Optical Spectrum Analyzer The Anritsu MS9717A is an optical spectrum analyzer in the MS971x diffraction-grating family for telecom-band optical spectrum 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 MS9717A is an optical spectrum analyzer in the MS971x diffraction-grating family for telecom-band optical spectrum 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 MS9717A**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**MS9717A**

LISTING

<https://aumictechlabs.com/products/ms9717a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

### This unit

The Anritsu MS9717A is a optical spectrum analyzer designed for characterization of optical devices and systems in research, development, and manufacturing environments. It delivers advanced measurement capabilities for demanding optical applications, supporting both single-mode and multi-mode fiber analysis with configurable resolution bandwidth and rapid data acquisition. Technical Specifications Wavelength Measurement Range: 600 nm to 1750 nm Resolution Bandwidth (RBW): Selectable from 0.03

nm to 1.0 nm, with minimum resolution of 30 pm Measurement Speed: Waveform data measurement and transfer capability in under 0.2 seconds (5 nm span) Key Features High-speed optical measurements with rapid data transfer to external systems Selectable resolution bandwidth options (0.03, 0.05, 0.07, 0.1, 0.2, 0.5, 1.0 nm) for flexible measurement resolution Internal memory for setup and trace storage with external data transfer capability via USB or Ethernet Remote control support via GPIB and RS-232C interfaces with LabVIEW driver compatibility Benchtop form factor suitable for laboratory and production environments Typical Applications Optical device characterization in component development System-level optical performance validation Multi-wavelength signal monitoring and analysis Fiber-coupled optical source characterization Compatibility & Integration The MS9717A supports both single-mode and multi-mode fiber inputs for diverse optical measurement scenarios. The instrument integrates with Windows-based systems and accepts remote commands via standard test equipment interfaces (GPIB, RS-232C), enabling integration into automated measurement systems and laboratory information management workflows.

## Features & description

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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.

## MS9717A 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  |

# MS9717A Specifications

| PARAMETER                                 | VALUE                                                                                                                                   |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Anritsu MS9717A 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              |
| 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.

### 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.