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Data Sheet

August 2, 2026

ANRITSU

Anritsu MS9710B Optical Spectrum Analyzer

CALIBRATED

Anritsu MS9710B Optical Spectrum Analyzer *CALIBRATED* The MS9710B provides a diffraction-grating optical spectrum analyzer covering 600 to 1750 nm for wavelength-domain characterization of optical components and systems. It supports DWDM channel analysis, SNR measurement, PMD analysis, and EDFA gain/noise evaluation with optional internal light sources and GPIB remote control. DWDM component and system characterization; EDFA gain and noise figure measurement; optical filter and amplifier spectral analysis; PMD measurement on fiber links; SNR evaluation of optical channels; R&D and production test of optical transmitters and receivers. The MS9710B provides a diffraction-grating optical spectrum analyzer covering 600 to 1750 nm for wavelength-domain characterization of optical components and systems. It supports DWDM channel analysis, SNR measurement, PMD analysis, and EDFA gain/noise evaluation with optional internal light sources and GPIB remote control. DWDM component and system characterization; EDFA gain and noise figure measurement; optical filter and amplifier spectral analysis; PMD measurement on fiber links; SNR evaluation of optical channels; R&D and production test of optical transmitters and receivers.



MODEL	CALIBRATION
Anritsu MS9710B	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
MS9710B	https://aumictechlabs.com/products/ms9710b-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MS9710B Optical Spectrum Analyzer is a diffraction-grating based instrument engineered for high-accuracy optical spectral measurements across a broad wavelength range. It performs precise measurements of laser diode and LED spectra, passive optical component transmission characteristics, and optical fiber system noise figure and gain. The analyzer delivers superior stability and reliability for demanding WDM communications testing, particularly in the 1.55 μm band.

Technical Specifications

Wavelength Range: 600 to 1750 nm
Dynamic Range: 70 dB at 1 nm from peak (high-dynamic range mode) 62 dB at 1 nm from peak (normal mode) 60 dB at 0.5 nm from peak (high-dynamic range mode) 58 dB at 0.5 nm from peak (normal mode)

Wavelength Accuracy: ± 0.3 nm (600–1750 nm, post-calibration) ± 0.05 nm (1.53–1.57 μm band, with optional internal reference source) ± 0.1 nm (1530–1570 nm, 0.5–1 nm resolution)

Wavelength Linearity: ± 20 pm (1530–1570 nm)

Level Accuracy: ± 0.4 dB
Level Linearity: ± 0.05 dB

Resolution Bandwidth: Maximum 70 pm
Polarization Dependency: ± 0.05 dB; < 0.05 dB when RBW ≥ 0.1 nm

Optical Reception Sensitivity: -90 dBm guaranteed; RMS noise ≤ -90 dBm (1.25–1.6 μm)
Signal-to-Noise Ratio: Improved through left/right noise floor averaging and sweep averaging

Key Features

Fibered input optimized for single-mode fiber connection
Built-in attenuator for high-power optical signals
10 marker frequency display and table display mode for WDM applications
Optional internal white light source, calibration source, and reference wavelength source
Optional L-band enhancement (Option 15) for 1570–1620 nm with improved accuracy, resolution, and linearity
VGA monitor output (Option 06)

Typical Applications

Laser diode and LED spectral characterization;
WDM system validation;
passive optical component measurement;
optical fiber amplifier gain and noise figure assessment.

Input Specifications

Fibered input with single-mode fiber compatibility;
built-in attenuation for high-power optical signals.

Features & description

From manufacturer datasheet

Features

- Diffraction-grating OSA architecture, 600 to 1750 nm wavelength range
- Level measurement -90 to +10 dBm class in 1250 to 1600 nm (0 to 30°C)
- Wavelength setting resolution 0.07 to 1 nm
- DWDM channel, SNR, PMD, and EDFA analysis functions
- Optional internal light sources
- GPIB remote interface
- 6.4-inch TFT color display
- High dynamic range mode: 70 dB at ± 1 nm / 60 dB at ± 0.5 nm (0.07 nm resolution, 1550 nm)

Polarization Dependence: $\leq \pm 0.05$ dB at 1550 nm (≥ 0.5 nm resolution)

Dynamic Range (High Mode): 70 dB at ± 1 nm / 60 dB at ± 0.5 nm (0.07 nm, 1550 nm) Dynamic Range (Normal Mode): 62 dB at ± 1 nm / 58 dB at ± 0.5 nm Wavelength Accuracy: ± 0.05 nm after Wcal(Ref) in C-band class Wavelength Setting Resolution: 0.07 to 1 nm Remote Interface: GPIB Display: 6.4-inch TFT Standard Operating Conditions Operate within 0 to 30°C for specified level accuracy in the 1250 to 1600 nm band. Perform wavelength calibration (Wcal Ref) before quoting C-band wavelength accuracy. Allow adequate warm-up per manual before precision measurements. Operational Notes Catalog title *CALIBRATED* indicates inventory calibration status, not an OEM model suffix. Confirm installed options (internal sources, analysis packages) before quoting capability. Alias MS9710B.

MS9710B Characteristics / Specifications

PARAMETER	VALUE
Model	MS9710B
Manufacturer	Anritsu
Instrument Type	Optical Spectrum Analyzer (diffraction grating)
Wavelength Range	600 to 1750 nm
Level Range	−90 to +10 dBm class (1250 to 1600 nm, 0 to 30°C)
Level Accuracy	±0.4 dB at −23 dBm (1300/1550 nm)
Level Stability	±0.02 dB
Level Linearity	±0.05 dB
Polarization Dependence	≤±0.05 dB at 1550 nm (≥0.5 nm resolution)
Dynamic Range (High Mode)	70 dB at ±1 nm / 60 dB at ±0.5 nm (0.07 nm, 1550 nm)
Dynamic Range (Normal Mode)	62 dB at ±1 nm / 58 dB at ±0.5 nm
Wavelength Accuracy	±0.05 nm after Wcal(Ref) in C-band class
Wavelength Setting Resolution	0.07 to 1 nm
Remote Interface	GPIB
Display	6.4-inch TFT Standard Operating Conditions Operate within 0 to 30°C for specified level accuracy in the 1250 to 1600 nm band. Perform wavelength calibration (Wcal Ref) before quoting C-band wavelength accuracy. Allow adequate warm-up per manual before precision measurements.
High dynamic range mode	70 dB at ±1 nm / 60 dB at ±0.5 nm (0.07 nm resolution, 1550 nm)

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.

wavelength range

- Level measurement -90 to +10 dBm class in 1250 to 1600 nm (0 to 30°C)
- Wavelength setting resolution 0.07 to 1 nm
- DWDM channel, SNR, PMD, and EDFA analysis functions
- Optional internal light sources
- GPIB remote interface
- 6.4-inch TFT color display
- High dynamic range mode: 70 dB at ±1 nm / 60 dB at ±0.5 nm (0.07 nm resolution, 1550 nm)

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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.