

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

ANRITSU

Anritsu MS9740B- Optical Spectrum Analyzer

Anritsu Optical Spectrum Analyzers. Dynamic Range: 42 dB to 70 dB, Accuracy: ± 20 pm (standard option MS9740B-002), Resolution: 0.03 nm to 1 nm.



MODEL

Anritsu MS9740B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

MS9740B

LISTING

<https://aumictechlabs.com/products/ms9740b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu MS9740B is a benchtop optical spectrum analyzer engineered for evaluation of optical devices and systems across research, development, and production environments. It delivers broad wavelength coverage, high resolution, and extended dynamic range with fast sweep capability. The instrument provides nine pre-configured measurement menus optimized for laser diodes, optical amplifiers, WDM components, and transceiver characterization, enabling stable production testing and comprehensive spectral analysis from visible to infrared wavelengths. Technical Specifications Wavelength Range: 600 nm to 1750 nm Dynamic Range: 42 dB to 70 dB; 45 dB minimum SMSR; 42 dB at 0.2 nm from peak Wavelength Accuracy: ± 20 pm (standard option MS9740B-002); ± 50 pm to ± 300 pm (MS9740B-009); ± 5 pm stability over 1 minute with smoothing Wavelength Resolution: 0.03 nm to 1 nm; minimum 0.03 nm in the 1550 nm band (MS9740B-009) Optical Power Range: -90 dBm to $+23$ dBm Maximum Input Power: $+23$ dBm (with optical attenuator enabled) Sweep Time: ≤ 0.2 s (5 nm span, 0.1 nm resolution); ≤ 0.3 s (500 nm span); 0.35 s/30 nm typical; 1.65 s/30 nm typical SMSR: 45 dB minimum with ± 1.4 dB

reproducibility

Key Features Nine application-specific measurement menus for DFB-LD, FP-LD, LED, LD module, PMD, optical amplifier, WDM filter, and WDM spectrum analysis DWDM support for 50 GHz and 100 GHz channel spacing; simultaneous evaluation of up to 300 channels Optical pulse measurement mode without external trigger; suitable for thermal analysis at LD chip production Single-screen simultaneous display of center wavelength, optical level, OSNR, and spectrum width Dual measurement capability for optical filters and attenuators via reference comparison Automatic EDFA gain and noise figure calculation from optical input/output measurements Transceiver optical characterization compatible with BERT systems for electrical testing Measurement processing times reduced up to 50% versus MS9740A

Typical Applications LD module and DFB-LD characterization; FP-LD and LED spectral evaluation; PMD and optical amplifier testing; WDM filter and WDM spectrum analysis; optical transceiver qualification; EDFA performance assessment.

Features & description

From manufacturer datasheet

Technical Specifications

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Frequently Asked Questions

What does the Anritsu MS9740B measure and what is its wavelength range? The MS9740B is a benchtop optical spectrum analyzer that measures optical power across wavelengths from 600 nm to 1750 nm, covering visible through near-infrared bands. It delivers a dynamic range of 42 dB to 70 dB with switchable resolution from 0.03 nm to 1 nm, making it suitable for characterizing laser lines, WDM signals, and broadband sources in telecom and research applications. Power measurements span -90 dBm to $+23$ dBm, enabling analysis of both weak and high-power optical signals. What is the condition of this used MS9740B and what has been verified? We list this unit as used, meaning it has prior operational history but remains functional and ready for deployment. Before listing, we verify core functionality including wavelength accuracy, power measurement capability, and display responsiveness to ensure you receive a reliable instrument. Calibration is not included in the sale price but is available separately starting at to restore full metrological traceability. Does this MS9740B need calibration and what does it cost? The MS9740B benefits from periodic recalibration to maintain measurement accuracy, particularly if you require the ± 20 pm wavelength accuracy (standard option MS9740B-002). We offer calibration services separately starting at ; I recommend contacting us directly for a quote that includes your specific accuracy requirements and current turnaround times.

Calibration documentation and a certificate of conformance are provided upon completion. What interfaces and connectivity options does the MS9740B have? The MS9740B supports GPIB (IEEE 488) and RS-232 interfaces for remote control and data logging, enabling integration into automated test systems. USB connectivity is also available on this model to interface with modern computers and measurement software. Compatible drivers and control software documentation are typically included or available from Anritsu; con

Anritsu MS9740B — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Anritsu MS9740B. Calibration covers wavelength accuracy at 850, 1310, 1550, and 1625 nm, power level accuracy, resolution bandwidth (RBW) accuracy, and dynamic range verification. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values Common Anritsu MS9740B faults: wavelength motor failure, internal light source dimming, detector sensitivity loss. Common repairs include wavelength motor servicing, internal broadband source replacement, and detector recalibration after extended use. Request Calibration → Request Repair Quote →

Anritsu MS9740B price

This Anritsu MS9740B is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Anritsu MS9740B calibration cost

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Unit notes

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MS9740B Specifications

PARAMETER	VALUE
Power Range (dBm)	-90 dBm to +23 dBm Wavelength Range: 600 nm to 1750 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.

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Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values

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[Request Calibration](#) → [Request Repair Quote](#) →

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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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