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Data Sheet

August 14, 2026

ADVANTEST

Advantest Q8384 600nm-1700nm Optical Spectrum Analyzer

Reflective Attenuation: greater than or equal to 35 dB Interface: GPIB IEEE488 1978 VGA printerDSUB 25 Option 25: built in calibration light source From Advantest Q8384 Optical Spectrum Analyzer datasheet Q8384-8E specification tables. Interface: GPIB IEEE488 1978 VGA printerDSUB 25 Option 25: built in calibration light source From Advantest Q8384 Optical Spectrum Analyzer datasheet Q8384-8E specification tables.



MODEL

Advantest Q8384

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

Q8384

LISTING

<https://aumictechlabs.com/products/q8384-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Advantest Q8384 is an optical spectrum analyzer designed for characterization of optical signals across the 600 nm to 1700 nm wavelength band. It delivers the wavelength accuracy, resolution, and dynamic range required for telecommunications, optical device manufacturing, and research-grade spectral analysis. The instrument provides direct input handling up to +23 dBm (200 mW) and achieves level accuracy of ± 0.4 dB at 1550 nm, making it suitable for EDFA noise figure measurement, WDM analysis, and optical filter evaluation. Technical Specifications Wavelength Range: 600 nm to 1700 nm Wavelength Resolution: 10 pm (0.01 nm) Wavelength Accuracy: ± 0.01 nm; 20 pm at 1.55 μ m (with built-in calibration source); ± 40 pm in L-band (1570–1610 nm) Wavelength Linearity: ± 10 pm (1530–1570 nm) Wavelength Repeatability: ± 3 pm (1530–

1610 nm) Input Power Range: -60 dBm to +20 dBm; direct input to +23 dBm (200 mW) Input Power Accuracy: ± 0.5 dB at 1550 nm Level Accuracy: ± 0.4 dB at 1550 nm Level Linearity: ± 0.05 dB (-50 dBm to -10 dBm, at 1550 nm) Dynamic Range: >50 dB at ± 0.1 nm; 60 dB at ± 0.2 nm; >70 dB overall Polarization Dependency: $< \pm 0.05$ dB (1250–1610 nm) Sweep Time: <500 ms (10 nm span, normal mode, 1550 nm, 501 samples) Dimensions: 426 mm (W) $\times$ 133 mm (H) $\times$ 545 mm (D) Weight: 18 kg

Key Features EDFA noise figure measurement with automatic calculation Optical frequency display aligned to ITU-T standardized wavelength grid WDM analysis with simultaneous display of up to 256 peak wavelengths and power levels Limit line function with Pass/Fail judgment for manufacturing line integration Alternate sweep function for dual-window comparison of measurement datasets Wavelength-specific S/N ratio analysis Broad-band EE-LED light source for narrow-band optical filter characterization Optional built-in wavelength calibrator (1550 nm EE-LED)

Typical Applications EDFA and optical amplifier characterization WDM system analysis and channel power measurement Optical component and device testing in manufacturing environments Transmission and loss evaluation of optical filters ITU-grid frequency verification and optical signal integrity assessment

Compatibility & Integration GPIB interface Ethernet connectivity

Features & description

From manufacturer datasheet

Polarization Dependence 1250 to 1610 nm: less than or equal to plus or minus 0.05 dB

Dynamic Range 0.1 nm From Peak: greater than or equal to 50 dB Dynamic Range 0.2 nm From Peak: greater than or equal to 60 dB Dynamic Range 0.4 nm High Dynamic Range Mode: greater than or equal to 67 dB Sweep Span: 0.2 nm to full span or zero span Number Of Samples: 101 201 501 1001 2001 5001 10001 Measurement Time Span 10 nm Normal 1550 nm average 1 501 samples: less than or equal to 500 ms Internal Fiber: 9.5/125 um SM Reflective Attenuation: greater than or equal to 35 dB Interface: GPIB IEEE488 1978 VGA printerDSUB 25 Option 25: built in calibration light source Notes From Advantest Q8384 Optical Spectrum Analyzer datasheet Q8384-8E specification tables.

Q8384 Characteristics / Specifications

PARAMETER	VALUE
Model	Q8384
Wavelength Measurement Range	600 to 1700 nm
Wavelength Accuracy Uncalibrated Class	less than or equal to plus or minus 500 pm
Wavelength Accuracy After Option 25 1530 to 1570 nm	less than or equal to plus or minus 20 pm
Wavelength Accuracy After Option 25 1570 to 1610 nm	less than or equal to plus or minus 40 pm
Wavelength Accuracy Single Point Cal 600 to 1700 nm	less than or equal to plus or minus 200 pm
Wavelength Linearity 1530 to 1570 nm	less than or equal to plus or minus 10 pm
Wavelength Linearity 1570 to 1610 nm	less than or equal to plus or minus 20 pm
Wavelength Repeatability 1530 to 1610 nm	less than or equal to plus or minus 3 pm
Resolution Settings	10 20 50 100 200 500 pm
Resolution Accuracy 50 pm 1530 to 1610 nm	less than or equal to plus or minus 3 percent
Resolution Accuracy 100 pm or more 1530 to 1610 nm	less than or equal to plus or minus 2 percent
Level Range 1250 to 1610 nm	minus 87 to plus 23 dBm
Level Range 950 to 1250 and 1610 to 1700 nm	minus 77 to plus 23 dBm
Level Range 600 to 1000 nm	minus 55 to plus 23 dBm
Level Accuracy 1550 nm	less than or equal to plus or minus 0.4 dB
Level Linearity minus 50 to minus 10 dBm 1550 nm	less than or equal to plus or minus 0.05 dB
Level Repeatability 1530 to 1610 nm	less than or equal to plus or minus 0.02 dB
Flatness 1530 to 1610 nm	less than or equal to plus or minus 0.2 dB
Polarization Dependence 1250 to 1610 nm	less than or equal to plus or minus 0.05 dB

PARAMETER	VALUE
Dynamic Range 0.1 nm From Peak	greater than or equal to 50 dB
Dynamic Range 0.2 nm From Peak	greater than or equal to 60 dB
Dynamic Range 0.4 nm High Dynamic Range Mode	greater than or equal to 67 dB
Sweep Span	0.2 nm to full span or zero span
Number Of Samples	101 201 501 1001 2001 5001 10001
Measurement Time Span 10 nm Normal 1550 nm average 1 501 samples	less than or equal to 500 ms
Internal Fiber	9.5/125 um SM
Reflective Attenuation	greater than or equal to 35 dB
Interface	GPIB IEEE488 1978 VGA printerDSUB 25
Wavelength repeatability	1530 to 1610 nm: less than or equal to plus or minus 3 pm
Attenuation	greater than or equal to 35 dB

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
Model	Q8384
Wavelength Measurement Range	600 to 1700 nm
Wavelength Accuracy Uncalibrated Class	less than or equal to plus or minus 500 pm
Wavelength Accuracy After Option 25 1530 to 1570 nm: less than or equal to plus or minus 20 pm	
Wavelength Accuracy After Option 25 1570 to 1610 nm: less than or equal to plus or minus 40 pm	
Wavelength Accuracy Single Point Cal 600 to 1700 nm: less than or equal to plus or minus 200 pm	
Specifications	
PARAMETER	VALUE
Wavelength Linearity 1530 to 1570 nm	less than or equal to plus or minus 10 pm
Wavelength Linearity 1570 to 1610 nm	less than or equal to plus or minus 20 pm
Wavelength Repeatability 1530 to 1610 nm	less than or equal to plus or minus 3 pm
Resolution Settings	10 20 50 100 200 500 pm
Resolution Accuracy 50 pm 1530 to 1610 nm: less than or equal to plus or minus 3 percent	
Resolution Accuracy 100 pm or more 1530 to 1610 nm: less than or equal to plus or minus 2 percent	
Level Range 1250 to 1610 nm: minus 87 to plus 23 dBm	
Level Range 950 to 1250 and 1610 to 1700 nm: minus 77 to plus 23 dBm	
Level Range 600 to 1000 nm: minus 55 to plus 23 dBm	
Level Accuracy 1550 nm: less than or equal to plus or minus 0.4 dB	
Level Linearity minus 50 to minus 10 dBm 1550 nm: less than or equal to plus or minus 0.05 dB	
Specifications	
PARAMETER	VALUE
Level Repeatability 1530 to 1610 nm	less than or equal to plus or minus 0.02 dB
Flatness 1530 to 1610 nm	less than or equal to plus or minus 0.2 dB
Polarization Dependence 1250 to 1610 nm	less than or equal to plus or minus 0.05 dB
Dynamic Range 0.1 nm From Peak	greater than or equal to 50 dB
Dynamic Range 0.2 nm From Peak	greater than or equal to 60 dB
Dynamic Range 0.4 nm High Dynamic Range Mode: greater than or equal to 67 dB	
Sweep Span: 0.2 nm to full span or zero span	
Number Of Samples: 101 201 501 1001 2001 5001 10001	
Measurement Time Span 10 nm Normal 1550 nm average 1 501 samples: less than or equal to 500 ms	

Specifications

PARAMETER	VALUE
Internal Fiber	9.5/125 um SM
Reflective Attenuation	greater than or equal to 35 dB
Interface	GPIB IEEE488 1978 VGA printerDSUB 25

Option 25: built in calibration light source

Notes
From Advantest Q8384 Optical Spectrum Analyzer datasheet Q8384-8E specification tables.

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.