

ADVANTEST

Q8384

The Advantest Q8384 is a high-end optical spectrum analyzer designed for precise measurement and evaluation of wavelength characteristics in fiber optic communications. Utilizing a high-performance monochromator, it delivers exceptional wavelength resolution and accuracy in the 1.55 μm band, combined with a wide dynamic range and the ability to accept high-power optical inputs directly. It includes diverse WDM analysis functions and EDFA noise figure measurements.

SPECIFICATIONS

General

Interfaces	GPIB
Display	10.4-inch color LCD
Storage	3.5-inch floppy disk drive

Physical

Operating Temperature	+10 to +40 °C
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Wavelength Specifications

Wavelength Range	600 nm to 1700 nm
Minimum Wavelength Resolution	10 pm (in 1.55 μm band)
Wavelength Accuracy	± 20 pm (in 1.55 μm band)

Dynamic Range & Optical Rejection

Dynamic Range (Peak ± 0.1 nm)	50 dB
Dynamic Range (Peak ± 0.2 nm)	60 dB

Measurement & Analysis Functions

WDM Analysis	Supported
EDFA / Optical Amplifier Analysis	Supported (Measurement of NF noise indices)
Pass/Fail Limit Testing	Supported (Limit line function with Pass/Fail judgment)

Inputs & Outputs

Optical Input Connector	Universal adapter system
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Optical Input

Applicable Fiber	Single-mode (SM 9/125 μm) / Multimode (GI 50/125 μm)
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Amplitude / Level

Level Accuracy	±0.4 dB (at -20 dBm input, 1310/1550 nm)
Polarization Dependence	±0.05 dB (1520 to 1620 nm band)
Level Linearity	±0.05 dB (-50 to +10 dBm, 1550 nm)
Sensitivity	-87 dBm (1200 to 1600 nm, 0.1 nm resolution)

Performance

Measurement Time (Sweep Speed)	0.5 seconds (Span 500 nm)
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TECHNOLOGY

Monochromator-based Optical Spectrum Analysis

APPLICATIONS

DWDM system evaluation, EDFA noise figure measurement, optical component characterization

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.