

ADVANTEST

Q8383

The Advantest Q8383 is a high-performance optical spectrum analyzer (OSA) designed for analyzing optical devices and light sources. It features a broad wavelength range of 550 nm to 1750 nm, supporting both single-mode and multimode fibers with a dynamic range of 55 dB and high level accuracy.

SPECIFICATIONS

General

Interfaces	GPIO
Display	6.5-inch color LCD

Physical

Power Supply	100 to 120 VAC / 220 to 240 VAC, 50/60 Hz, 150 VA or less
Operating Temperature	10 to 40 °C °C
Dimensions (W×H×D)	424 mm × 177 mm × 450 mm mm
Weight	15 kg

Wavelength Specifications

Wavelength Range	350 nm to 1750 nm
Minimum Wavelength	350 nm
Maximum Wavelength	1750 nm

Resolution and Bandwidth

Resolution Bandwidth (FWHM)	0.1 nm to 5 nm
Minimum Resolution Bandwidth	0.1 nm
Maximum Resolution Bandwidth	5 nm

Optical Power and Amplitude

Power Level Accuracy	±0.4 dB
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Optical Interfaces

Compatible Fiber Types	Single-mode, Multimode
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External Connectivity and Control

GPIO (IEEE-488) Interface	Standard
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Wavelength

Wavelength Accuracy	±0.5 nm
Wavelength Reproducibility	±0.05 nm

Measurement Power

Level Linearity	±0.5 dB
Polarization Dependency	±0.1 dB (at 1.3 μm / 1.55 μm)

Inputs & Outputs

Optical Input Connector	FC-PC (standard)
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Data Storage

Storage Drive	3.5-inch floppy disk drive (2DD/2HD)
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Measurement Capabilities

Sweep Modes	Single, Continuous, Average
Number of Sampling Points	51 to 1001 points

Operating Conditions

Warm-up Time	1 hour
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Environmental

Operating Humidity Range	85% RH or less (non-condensing)
Storage Temperature Range	-20 to +60 °C

Hardware Options

Built-in Printer	Thermal printer
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TECHNOLOGY

Optical Spectrum Analysis

APPLICATIONS

Fiber optic testing and component spectral evaluation

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