

ADVANTEST

Q8347

The Advantest Q8347 is a high-performance Optical Spectrum Analyzer (OSA) designed for the evaluation of Wavelength Division Multiplexing (WDM) transmission systems, ultra-high-speed optical transmission networks, and narrow-band optical filters. Utilizing a Fourier spectrum system based on a Michelson interferometer, the Q8347 overcomes the limitations of narrow measuring spans and low wavelength accuracy typical of Fabry-Perot interferometer systems, offering exceptional wavelength resolution and measurement accuracy across its operating range.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488)
Display	Color LCD

Physical

Power Supply	100 to 240 V AC, 50/60 Hz
Operating Temperature	10 to 40 °C °C

Wavelength Specifications

Wavelength Range	350 to 1750 nm
Wavelength Accuracy	High wavelength accuracy via Michelson interferometer optical system

Optical System

Measurement Principle	Fourier spectrum system with Michelson interferometer
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Resolution and Bandwidth

Wavelength Resolution	High resolution (up to 0.001 nm at 1550 nm)
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Analysis and Application Software

Target Applications	WDM systems, ultra high-speed optical transmission, narrow-band optical filters
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Measurement Speed and Sweep

Measurement Span	Wide measuring span compared to Fabry-Perot interferometer systems
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Optical Power

Power Measurement Range	-60 dBm to +10 dBm
Polarization Dependence	$\leq \pm 0.1$ dB
Maximum Input Power	+10 dBm

Dynamic Range

Optical Dynamic Range	35 dB (at ±0.1 nm from peak), 45 dB (at ±0.2 nm from peak)
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Optical Port

Optical Connector	FC-PC
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Optical Performance

Wavelength Reference	Internal He-Ne Laser (632.8 nm)
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Performance

Sweep Time	Approx. 1.5 s
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TECHNOLOGY

Fourier-transform Optical Spectrum Analysis (FT-OSA)

APPLICATIONS

Evaluation of WDM transmission systems, ultra-high-speed optical transmission networks, and narrow-band optical filters

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