

ANRITSU

MS9710C

The Anritsu MS9710C is a high-performance diffraction grating Optical Spectrum Analyzer covering the 600 to 1750 nm wavelength range. Designed primarily for evaluating active devices and DWDM systems, it offers high wavelength accuracy, excellent dynamic range, and advanced built-in analysis capabilities including WDM channel measurement and EDFA evaluation.

SPECIFICATIONS

General

Interfaces	GPIB, RS-232C, VGA
Display	8.4-inch color TFT-LCD

Physical

Power Supply	100 to 120 V / 200 to 240 V AC, 47.5 to 63 Hz, ≤ 150 VA
Operating Temperature	0 to 50 °C °C
Dimensions (W×H×D)	320 × 177 × 350 mm mm
Weight	≤ 16.5 kg kg

Wavelength Specifications

Wavelength Measurement Range	600 to 1750 nm
Wavelength Resolution Setting Range	0.05, 0.07, 0.1, 0.2, 0.5, 1 nm

Level and Power Specifications

Measurement Level Range	-90 to +23 dBm (1250 to 1600 nm)
Optical Reception Sensitivity	-90 dBm
Maximum Input Power (Damage Level)	+23 dBm
Safe Maximum Input Power	+23 dBm
Level Accuracy	±0.4 dB (at -10 dBm, 1310/1550 nm)
Polarization Dependence (PDL)	±0.05 dB (1550/1600 nm)

Dynamic Range and Stray Light

Dynamic Range (at ±0.2 nm)	42 dB (from peak wavelength)
Dynamic Range (at ±1.0 nm)	70 dB (from peak wavelength)

Sweep and Data Acquisition

Sweep Width (Span)	0 to 1200 nm, 0 nm
Sweep Time (Fast Mode)	≤ 0.2 s (for 5 nm span)

Optical Input Characteristics

Applicable Optical Fiber Type	Single-mode (SM), Multi-mode (MM)
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Measurement and Analysis Functions

WDM (Wavelength Division Multiplexing) Analysis	Wavelength, level, and SNR for up to 300 channels
Built-in Analysis Functions	EDFA, DFB-LD, FP-LD, LED, PMD, Optical Filter
Tracking Function	Supported (with tunable laser source)

Display and Interfaces

Removable Storage Media Support	3.5-inch Floppy Disk Drive
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Performance

Level Linearity	±0.05 dB (-50 to +10 dBm, at 1550 nm)
Wavelength Linearity	±0.02 nm (1530 to 1570 nm)
Sweep Time (Standard Mode)	≤ 0.5 s (Span ≤ 500 nm, 501 points)

Inputs & Outputs

Optical Return Loss	≥ 35 dB (with PC connector)
Optical Connectors	User-replaceable interchangeable type (FC, SC, ST, DIN, HMS-10/A)

Power

Power Consumption	≤ 150 VA
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Environmental

Storage Temperature Range	-20 °C to +60 °C
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TECHNOLOGY

Diffraction Grating

APPLICATIONS

WDM Systems, Active Devices (EDFA, DFB-LD, FP-LD)

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