

WA-5000 Wavelength Analyzer

OPTICAL SPECTRUM ANALYZER

- Fast and accurate optical spectrum analyzer, designed for production floor needs.



KEY FEATURES

Wavelength range:

- O-band model: 1260 to 1360 nm
- C-band: 1525 to 1615 nm

High speed sweeping in 500 ms (O-band)

Equivalent resolution bandwidth = 50 pm

Wavelength repeatability ± 20 pm

No mechanical life limitation

Long operation durability

SPECIFICATIONS

All specifications are typical at 23 °C ± 2 °C, unless otherwise specified.

TECHNICAL SPECIFICATIONS		
Model	WA-5000-O	WA-5000-C
Wavelength range (nm)	1260 to 1360	1525 to 1615
Equivalent resolution bandwidth (pm)	50 ^a to 100	50 ^a to 100
Absolute wavelength accuracy (pm)	±70	±70
Wavelength repeatability (pm)	±20	±20
Dynamic range (dBm)	-45 to 15	-45 to 15
Absolute power uncertainty (dB)	±0.8	±20
Maximum input power (dBm)	30	30
Power repeatability (dB)	±0.15	±0.15
Relative power accuracy (dB)	±0.5	±0.5
SMSR measurement range excluding PDL (dB)	≤45	≤45
SMSR accuracy (dB)	≤ ±1.0 (SMSR ≤ 40 dB); ≤ ±1.5 (SMSR > 40 dB)	≤ ±1.0 (SMSR ≤ 40 dB); ≤ ±1.5 (SMSR > 40 dB)
PDL (dB)	<0.3	<0.3
Noise floor (dBm)	-55	-55
Return loss (dB)	>30	>40
Sweep time (ms)	<500	<900
Connector type	FC/PC (9/125 μm)	
Weight (kg)	<10	

GENERAL SPECIFICATIONS		
Size (H x W x D)	103 mm x 442 mm x 300 mm (4.1 in x 17.4 in x 11.8 in)	
Weight	≤10 kg (22 lb)	
Temperature	Operating	5 °C to 40 °C (41 °F to 104 °F)
	Storage	-20 °C to 70 °C (-4 °F to 158 °F)
Relative humidity	20% to 80%	
Power ^b	100/120 Vac (50/60/400 Hz) 220/240 Vac (50/60 Hz) 60 W typical/80 W max.	
Access interface	USB 2.0	

a. Equivalent measurement bandwidth.

b. Operate with supply voltage fluctuations up to ±10 % of the nominal voltage.

ORDERING INFORMATION

WA-5000-XX

Model ■

- O = O-band optical spectrum analyzer
- C = C-band optical spectrum analyzer

Example: WA-5000-C

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