

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: 1260-1360 nm
- > C-band: 1527-1567 nm

High speed sweeping in 500 ms (O-band)

Hardware resolution bandwidth = 250 pm

Equivalent resolution bandwidth = 50-100 pm

Wavelength repeatability ± 10 pm

No mechanical life limitation

Long operation durability

SPEC SHEET

EXFO

SPECIFICATIONS

| Wavelength Analyzer | WA-5000-O | WA-5000-C |
|---|--|------------------------|
| Wavelength range (nm) | 1260 to 1360 | 1527 to 1567 |
| Equivalent resolution bandwidth (pm) | 50 ^a to 100 | 50 ^a to 100 |
| Absolute wavelength accuracy (pm) | ±50 | ±40 |
| Wavelength repeatability (pm) | ±10 | ±10 |
| Dynamic range (dBm) | -45 to 15 | -50 to 15 |
| Absolute power uncertainty (dB) | ±0.8 | ±0.5 |
| Maximum input power (dBm) | 30 | 15 |
| Power repeatability (dB) | ±0.15 | ±0.1 |
| Relative power accuracy (dB) | ±0.5 | ±0.4 |
| SMSR measurement range excluding PDL (dB) | ≤45 | n/a |
| SMSR accuracy (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 | |

a. Equivalent measurement bandwidth

GENERAL SPECIFICATIONS

| | | |
|--------------------|--|-----------------------------------|
| Size (H x W x D) | 103 mm x 442 mm x 300 mm (4 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 ^a | 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. Operate with supply voltage fluctuations up to ±10 % of the nominal voltage.

ORDERING INFORMATION

WA-5000-XX

Model

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

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