

BWC-CWDM Multichannel Diode Laser Light Source



BWC-CWDM multi-channel diode laser light source features stabilized Fabry-Perot or DFB laser diodes. The standard configuration comes with eight CWDM wavelength channels in two units, from 1470 to 1530 nm (unit A) and 1550 to 1610nm (unit B). It provides highly stabilized optical output power, external synchronization capability and internal modulation of 200 Hz. Analog control ports are available for custom monitoring and control applications.

Highlights

- Available in wavelengths: 1470 - 1610 nm
- Standard (<5 nm) and narrow (<0.5 nm) spectral linewidth versions
- Highly stabilized optical output power
- Internal modulation of 200Hz
- Synchronize to external sync. signal
- Various fiber optic connector styles
- Isolator option available

Applications

- Passive CWDM component Testing
- Reference light source
- Sensor Instrumentation
- Near-Infrared Spectroscopy

Specifications

Optical

Numbers of Channels ¹⁾	8 standard
Wavelengths	Unit A: 1470nm, 1490nm, 1510nm, and 1530nm, Accuracy: +/-5nm; Unit B: 1550nm, 1570nm, 1590nm and 1610nm, Accuracy: +/-5nm;
Power Output ²⁾	1-2 mW
Power Stability ³⁾	+/-0.005 dB (Short Terms- 15 min); +/-0.05 dB (Long Term – 8hrs)
Spectral Width	< 5 nm FWHM typical, standard line width option: - F
Fiber Type	Corning SMF-28
Output Port ⁴⁾	PC/FC

Electrical

Input Power	100-240 VAC @ 1Amp
Control	a) Power adjustment via internal trimpot (on the back panel) b) External modulation input: 20Hz to 500 KHz (optional) c) Internal modulation: 200Hz (standard) and 1Kz (optional) d) Analog port control per customer's specifications (optional)

Mechanical

Dimensions (WxHxD)	155 x 89 x 255 mm (4 ch.) x 2
Cooling	Internal Thermal Electric Cooler
Weight	3 lbs x 2

Environmental

Ambient Temperature	0 to 40°C
Storage Temperature	-20 to 60°C
Humidity	5-95%, non-condensing

- 1) Custom option of number of channels available.
- 2) Channel with higher output power available upon request
- 3) Measurement after 1 hr stabilization at 23+/-0.5 °C ambient
- 4) Other output ports also available

Ordering Information

Use the part numbers shown in BWC-M for custom configurations. Otherwise use the following for standard CWDM configurations.

