



SUPERLUM
The driving pulse of SLD technology

SUPERLUM is the industry leading manufacturer of state-of-the-art, ultimate quality superluminescent diodes and light sources, semiconductor optical amplifiers and tuneable swept lasers

BLM2-D-series Miniature Broadband Light Source Modules with Extended Bandwidth

BLM2-D-series Miniature Broadband Light Source Modules with Extended Bandwidth are powerful and very wide spectrum light sources based on a combination of two SLDs with slightly different center wavelengths. A built-in, stable and reliable digital dual-channel SLD current and temperature controller allows the switching of SLDs on and off either by a pushbutton, or externally by TTL, or from a PC via an RS-232 port. BLM2-D sources ensure quick and simple installation on the modular level and stable and reliable operation.

One-year warranty is provided for all BLM2-D-series Miniature Broadband Light Sources. Warranty may be extended for a longer time upon request.

Main optical parameters of standard BLM2-D light source modules are presented in the table below. Standard models produce broadband emission in 780–920 nm spectral band, however the flexible design of the light source and a great number of different SLD modules available for integration allow a lot of customized light sources to be designed.

Features

- Very wide emission spectra
- High optical power
- Miniature design (dimensions of 100 x 120 x 31 mm)
- +5 V DC supply
- RS-232 and TTL control
- Excellent stability
- Low noise



Physical Specifications

- Housing dimensions (W x D x H): 100 x 120 x 31 mm (3.94 x 4.72 x 1.22 inches)
- Weight: 400 g

Electrical Power Specifications

- +5 V DC, 3.5 A (max)

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Optical characteristics of standard models

Model number	Center wavelength (nm)	Spectral width, FWHM (nm)		Output power, SM (mW)	
		Min	Typ	Min	Typ
BLM2-D-810-B-5	810 ± 10	90	100	5.0	7.0
BLM2-D-840-B-10	840 ± 10	90	100	10.0	12.0
BLM2-D-860-G-5	860 ± 10	70	80	5.0	7.0
BLM2-D-880-B-10	880 ± 10	90	100	8.0	10.0
BLM2-D-880-B-MP	880 ± 10	190	200	1.0	1.5

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