



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

M-D, T, Q-series BroadLighters. Benchtop Broadband Light Sources with Extended Bandwidth

Superlum M-D, T, Q-series BroadLighters, the second generation of our D, T, Q-series BroadLighter light sources, are high power, extremely broadband, very low coherence benchtop light sources. The M-series BroadLighter is based on a combination of spectrally shifted superluminescent diode modules (SLDs). M-D-series BroadLighters have 2 SLDs inside, M-T-series BroadLighters have 3 SLDs combined, and there are 4 SLDs in M-Q-series devices. The most broadband D and T versions have 3 dB spectrum width of up to 150–200 nm, and Q devices provide up to 300-nm-wide spectrum. Output power exceeds 15 mW in selected models.

Most of models have two modifications, with and without optical isolators. Powerful («HP») models with optical isolators have «-I» in the model number and are intended for use in applications where optical feedback may affect SLD performance.



Features

- Extremely wide optical spectrum, up to 300 nm in selected models
- A few microns coherence length
- High output power, 15 mW and more in selected models
- Models with optical isolators
- Remote control through USB or by TTL
- Wide input range power supply unit (100–240 V AC)
- Customization
- Two years warranty

Physical Specifications

- Overall dimensions (W x H x D): 251 x 112 x 192 mm (9.88 x 4.41 x 7.56 inches)
- Weight (max): 4 kg

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BroadLighters: Optical Performance Parameters

Model number	Center wavelength (nm)	Spectral width, FWHM (nm)		Output power, SM (mW)	
		Min	Typ	Min	Typ
M-D-810-HP	810 ± 10	90	100	10.0	12.0
M-D-840-HP	840 ± 10	90	100	12.0	15.0
M-D-840-HP-I	840 ± 10	90	100	9.0	10.0
M-D-880-MP	880 ± 10	190	200	1.0	1.5
M-D-880-HP	880 ± 10	90	100	8.0	10.0
M-D-880-HP-I	880 ± 10	90	100	6.0	8.0
M-D-890-HP1	890 ± 10	140	150	5.0	6.0
M-D-890-UBB-HP	890 ± 10	180 (6 dB)	190 (6 dB)	8.0	10.0
M-D-980-HP	980 ± 10	180	200	4.0	6.0
M-T-850-HP	850 ± 10	155	165	12.0	15.0
M-T-850-HP-I	850 ± 10	155	165	8.0	10.0
M-T-860-HP	860 ± 10	125	135	12.0	15.0
M-T-860-HP-I	860 ± 10	125	135	8.0	10.0
M-Q-870-HP	870 ± 10	190	200	5.0	7.0
M-T-870-HP	875 ± 10	170	180	6.0	7.0
M-Q-920-HP	920 ± 10	275	300	3.0	4.0

All M-D, T, Q-series BroadLighter light sources are equipped by the master key control, remote interlock connection, visual/audible alarm, informational warning stickers, etc.

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