

Superluminescent light emitting diodes (SLED – 850nm Series)



Applications

- **Fiber Amplifiers**
- **Fiber Optic Sensors**
- **Components Testing**
- **Instrumentation**
- **Fiber Optic Gyroscope**
- **Fiber Optic Communication**
- **Optical Coherence Tomography (OCT)**

Key Features

- **High Power (up to 25mW)**
- **Broad Spectral Width**
- **Overheating Warning**
- **EMC Protection**



PRODUCT DESCRIPTION

Superluminescent light emitting diodes (SLED) light source series cover the 770nm to 890nm wavelength range. The equipment features high output power, flat and low rippled spectrum with excellent stability. The light sources have a wide range of applications from fiber optic communications to medical applications.

Specifications

OPTICAL PROPERTIES		Min.	Typ.	Max.
82-MP	Central Wavelength (nm)	770	830*	890
	Spectrum Width FWHM (nm)	15	20	
	Output Power	1.5		3
82-HP1	Central Wavelength (nm)	790	830*	860
	Spectrum Width FWHM (nm)	13	18	
	Output Power			10
82-HP2	Central Wavelength (nm)	790	830*	860
	Spectrum Width FWHM (nm)	13	18	
	Output Power			20
84-MP	Central Wavelength (nm)	820	835*	850
	Spectrum Width FWHM (nm)	45	50	
	Output Power	1.0	1.25	
84-HP1	Central Wavelength (nm)	820	840*	860
	Spectrum Width FWHM (nm)	45	50	
	Output Power	5	7.5	
84-HP2	Central Wavelength (nm)	820	840*	860
	Spectrum Width FWHM (nm)	45	50	
	Output Power	10	15	
84-HP3	Central Wavelength (nm)	820	840*	860
	Spectrum Width FWHM (nm)	45	50	
	Output Power	20	25	

*Typical value is not guaranteed if not specially requested.

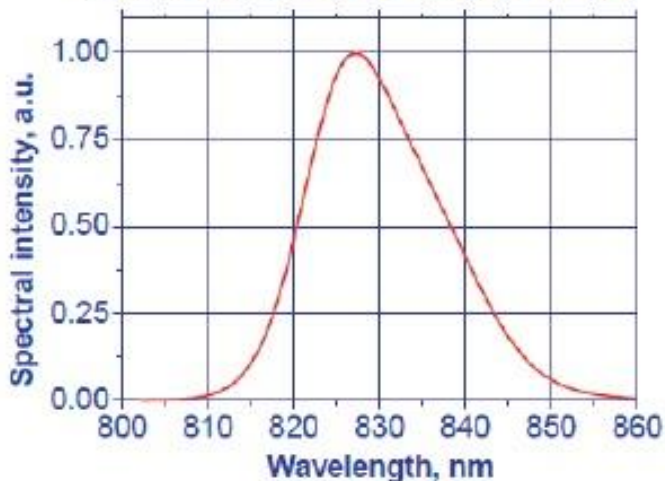
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Environment		Controls and Monitoring		Output	
Operating temperature	-10 to +70 degC	Displays	Optical output power	Output fiber	SMF
Storage temperature	-30 to +70 degC	Controls	Power adjustment, keylock switch, optical output power	Output connector	FC/APC
Power supply	110/230V, 50/60Hz	Alarms	Pump overheat warning	Computer Interface	RS232 (optional)

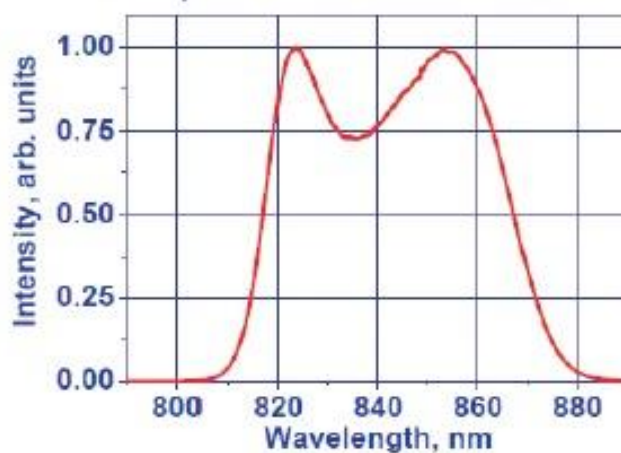
The characteristic of SLD 820nm MP Series

Spectrum example, 1.5 mW ex SM fiber



The characteristic of SLD 840nm HP Series

HP3 spectrum - 25mW ex SM Fiber



Specifications are subjected to change with a view of enhancing system performance without prior notice.