

# LM 4-850 series

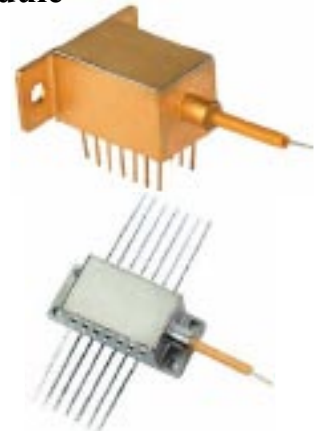
## MM Fiber Coupled Superluminescent Emitting Module

### Features:

- High optical output power in MM fibers
- Low ripple amplitude, low coherence
- High stability
- Optional built-in monitoring photodiode, TE cooler, thermistor

### Applications:

- Optical fiber gyroscopes and sensors
- Low coherence optical tomography (OCT)
- Fiber optic communication links
- Optical measurement systems



Parameter	Value			Unit
	Min	Typ	Min	
Output Power at the Fiber Optic Pigtail		8.0		mW
Length of Fiber Optic Pigtail		0.5		m
Operating Current			250	mA
Operating Voltage			2.5	V
Peak Emission Wavelength*		825+/-25		nm
Spectral Width (FWHM)	15			nm
Built-in Monitoring Photodiode Current @ 8.0 mW	0.01			mA
Spectrum Ripple Amplitude			1	%
Photodiode Operating Voltage		9+/-1		V
Thermistor Resistance @ (20+/-2)°C		10		kOhm
Negative Temperature Resistance Coefficient of Thermistor	- 3.6		- 4.0	%/ °C
TE Cooler Operating Voltage			1.2	V
TE Cooler Operating Current			1.5	A
Operating Temperature Range	- 40		+ 60	°C
Type of the Optical Fiber	MM 50/125, 62.5/125 or 100/125			μm
Glass Cladding Diameter	125			μm
PVC Plastic Buffer Diameter	0.9			mm
Fiber Optic Connector **	FC/APC			
Package	14 pin DIP Longhorn #202 or Butterfly #203 type			
Mode of Operation	continuous wave pulse mode			

Note: \* Emission wavelength of the laser diode stacked array is provided by the design and composition of the hetero-structure active area by the customer requirement in the range 780, 810-815, 820-830, 845-860nm

\*\* Optional ST, SC connectors