

LM 2-850 series

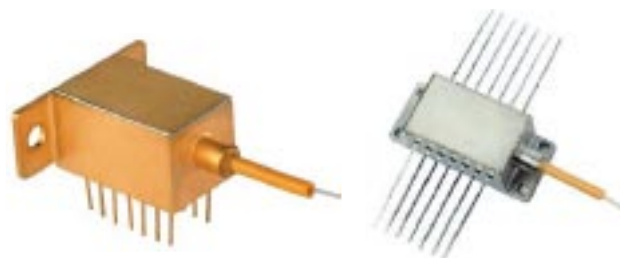
Fiber Coupled Superluminescent Emitting Module

Features:

- High optical output power in SM fibers
- Low ripple amplitude, low coherence
- High stability

Applications:

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



Parameter	Value			Unit
	Min	Typ	Max	
Output Power at the Fiber Optic Pigtail		2.0		mW
Length of Fiber Optic Pigtail		0.7		m
Operating Current			200	mA
Operating Voltage			2.5	V
Peak Emission Wavelength*		830+/-30		nm
Spectral Width (FWHM)	20			nm
Built-in Photodiode Current @ 2.0 mW	0.01			mA
Spectrum Ripple Amplitude			1	%
Photodiode Operating voltage		9+/-1		V
TE Cooler Operating Voltage			2.5	V
TE Cooler Operating Current			1.8	A
Thermistor Resistance (@ 20 +/-2°C)		10		k Ohm
Negative Temperature Resistance Coefficient of Thermistor	- 3.6		- 4.0	%/°C
Operating Temperature Range	- 40		+ 60	°C
Type of the Optical Fiber	SM800, FiberCore Ltd.			
Mode-Field Diameter		4.2		μm
Cladding Diameter		125+/-1		μm
PVC Plastic Buffer Diameter		0.9		mm
Fiber Optic Connector	FC/PC or FC/APC, ST, SC			
Package	14 pin DIP Longhorn #202 or Butterfly #203 type, #204 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