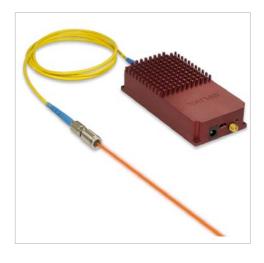
FIBER COUPLED LASER MODULE (658 NM)

FCLM658 Series

The FCLMTM Laser Module is a temperature stabilized semiconductor laser coupled with single mode fiber. It features very low M^2 value Gaussian beam output with excellent beam pointing stability at a wide temperature dynamic range. The unique designed electrical driver enable this optical engine has the lowest power consumptions compare to the similar product in the industry. The FCLMTM Laser Module is a Class III b laser product

Performance Specification

		Condition	Min	Тур	Max	Unit
Optical Performance						
Wavelength		T= 25°C		658		nm
Output Power	25	T= 25°C	25			mW
	50	T= 25°C	50			mW
Noise(RMS)		10~20 MHz		0.1	0.3	%
Power Stability		1hrs, T= 25°C		0.25	0.5	%
Power Stability		24hrs, T= 25°C		0.75	1	%
Polarization Extinction Ratio			15			dB
Collimated Beam Pa	rameters	;				
M2					1.2	
Beam Diameter		1/e2	0.7, 0.9, 1.5, 2.0, 4.0, 6.0			mm
Beam Divergence		full angle			1	mrad
Pointing Stability		2hrs, T= 25°C			5	urad
Pointing Stability					1	urad/°C
Fiber Information						<u> </u>
Length			1, 2, 3		m	
Fiber Type				SM / PM		
Mode Field Diameter				3		um
NA				0.12		
Fiber Jacket Diameter				3		mm
Electrical Parameter	s					·
Power Supply				9		V
Power Consumption				3	10	W
Current(TEC)					2	А
Current(LD)					200	mA
Temperature Stability				0.2		°C
Control				ACC		
Power Setting			0% ~	0% ~ 100% output power		
Environmental Cond	litions					
Storage Temperature				0 to + 50		°C
Operation Temperature				+ 10 to + 40		°C
Operation Humidity				No Condensing		
Package Dimensions *				112 x 56 x 26.5		mm



Features

- Plug & Play
- ESD Protection
- Power Adjustable
- ♦ LD Current Full Protection
- ♦ LD Temperature Stabilized
- **♦** Compact Size

Applications

- Polarization Maintaining Fiber
- High Speed Modulation
- Remote Control
- Collimated & Focused Beam
- Metal Jacket Protection

Note:

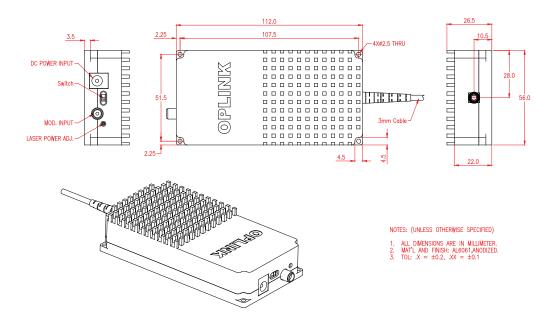
* The mechanical tolerance should be +/-0.2 mm on all package dimensions unless otherwise custom specified.





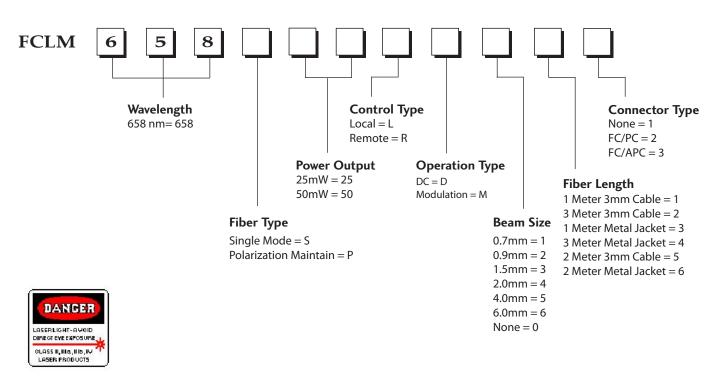
FCLM658 SERIES

Mechanical Drawing / Package Dimensions (dimension in mm)



Ordering Information

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.



This component does not comply with the Federal Regulations (21 CFR Subchapter1) as administered by the Center for Devices and Radiological health. Purchaser acknowledges that his/her products must comply with these regulations before they can be sold to a customer. The output light from this product is harmful to a human body even if it is invisible. Avoid looking at the output of this product directly, or through a lens during operation. Observance of operation should be through a TV camera or related equipment. Refer to IEC 825-1 and 21 CFR 1040.10-1040.11 as a radiation safety standard for laser products.

Oplink follows a policy of continuous product improvement. Specifications are subject to change without prior notice. The module's warranty is 1 year.