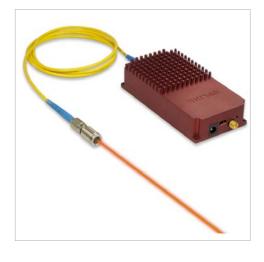
FIBER COUPLED LASER MODULE (670 NM)

FCLM670 Series

The FCLM™ Laser Module is a temperature stabilized semiconductor laser coupled with single mode fiber. It features very low M² 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 FCLM™ Laser Module is a Class III b laser product

Performance Specification

	Condition	Min	Тур	Max	Unit
Optical Performance					
Wavelength	T= 25°C		670		nm
Output Power	T= 25°C		5		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 Parameters					<u> </u>
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					
Length			1, 2, 3		m
Fiber Type			SM / PM		
Mode Field Diameter			3		um
NA			0.12		
Fiber Jacket Diameter			3		mm
Electrical Parameters					
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% ~	100% output _l	oower	
Environmental Conditions					
Storage Temperature			0 to + 50		°C
Operation Temperature		+ 10 to + 40		°C	
Operation Humidity		No Condensing			
Package Dimensions *		•	12 x 56 x 26.5	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:

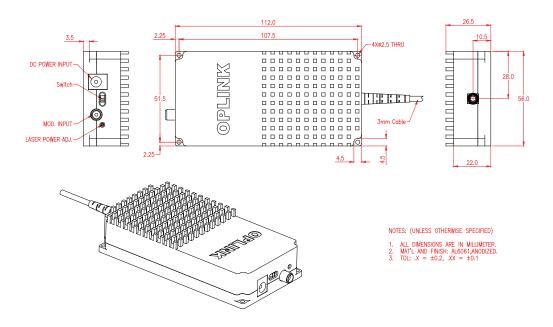
* The mechanical tolerance should be +/-0.2 mm on all package dimensions unless otherwise custom specified.





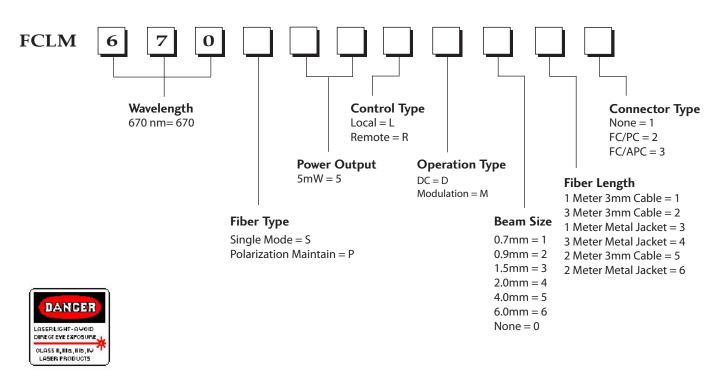
FCLM670 SERIES

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.