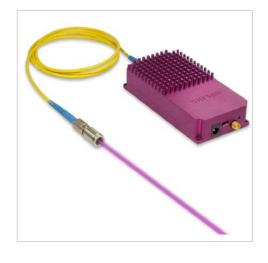
FIBER COUPLED LASER MODULE (405 NM)

FCLM405 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		405		nm
Output Power	T= 25°C		25		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					
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	Α
Current(LD)				200	mA
Temperature Stability			0.2		°C
Control			ACC		
Power Setting		0% ~	100% output	power	
Environmental Conditions					
Storage Temperature			0 to + 50		°C
Operation Temperature		+ 10 to + 40			°C
Operation Humidity		No Condensing			
Package Dimensions *			112 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:

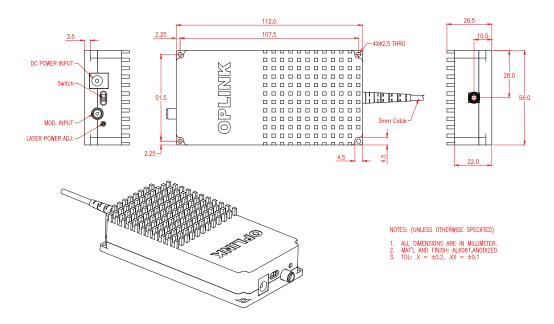
* The mechanical tolerance should be +/-0.2 mm on all package dimensions unless otherwise custom specified.





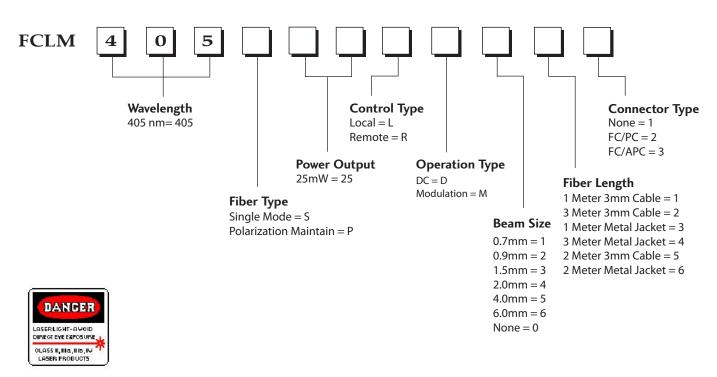
FCLM405 SERIES

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.