

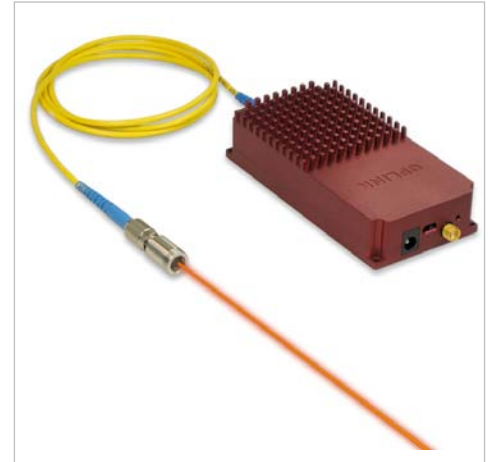
FIBER COUPLED LASER MODULE (658 NM)

FCLM658 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	Typ	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		1 hrs, 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		A	
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		mm	



Features

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

Applications

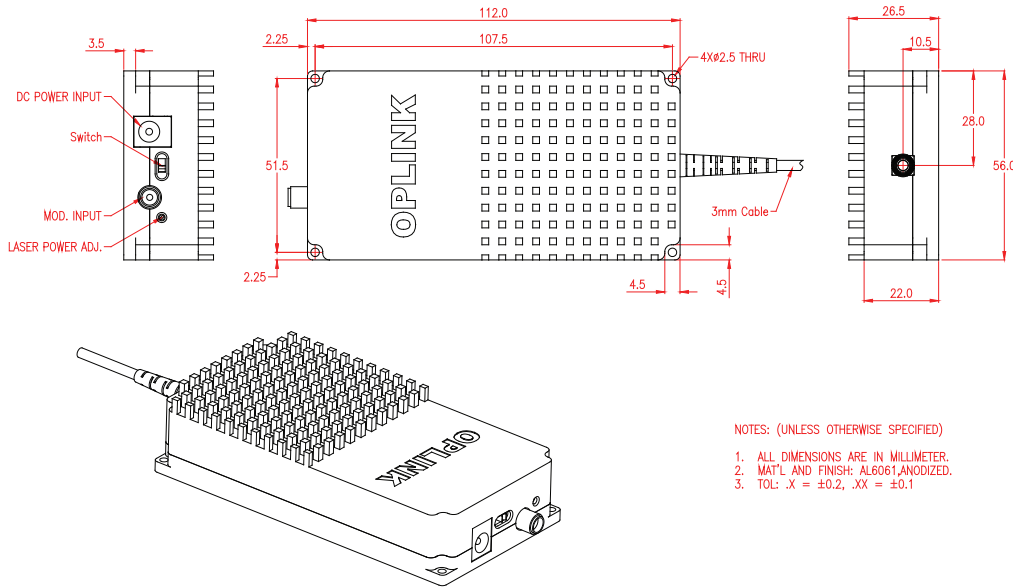
- ◆ Polarization Maintaining Fiber
- ◆ High Speed Modulation
- ◆ Remote Control
- ◆ Collimated & Focused Beam
- ◆ Metal Jacket Protection

Note:

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

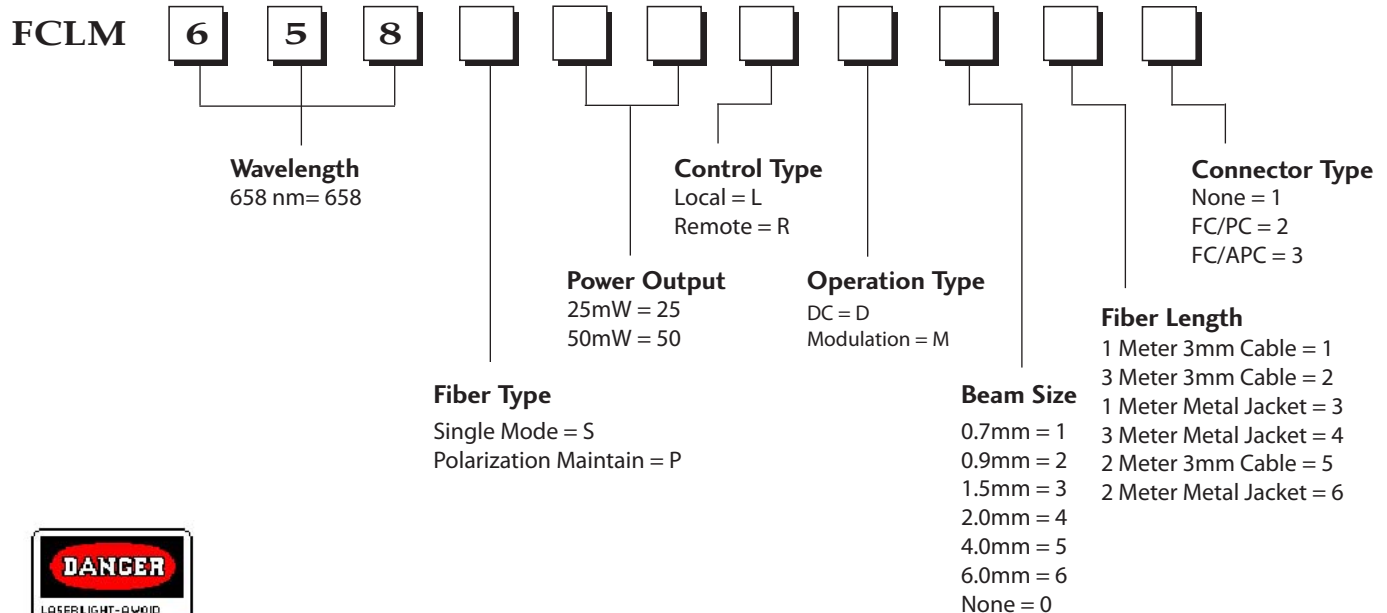
FCLM658 SERIES

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.

R03.20090331

Product Lines: ❖ Mux/Demux ❖ Switching/Routing ❖ Coupling/Splitting ❖ Monitoring/Conditioning ❖ Amplification ❖ Transmission ❖ Interconnect ❖ RGB Laser Modules