II-VI

FRSM-638-001-10-10-00-A

SM Fiber Pigtailed Red Laser

PRODUCT OVERVIEW

II-VI's family of fiber pigtailed laser products and dual-color fiber combiners offers multi-wavelength choices covering the spectral band from blue to IR, including 405 nm, 440 nm, 515 nm, 520 nm, 532 nm, 635 nm, 660 nm, 785 nm, 808 nm, 1064 nm, and other customized wavelengths. Varied fiber options (single-mode, PM, and multimode) and customized fiber output collimators are available.

Features

- High reliability
- High stability

Applications

- Laser pointers
- Laser displays
- Test and Measurement sources
- Survey equipment

WEBSITE
ii-vi.com

CONTACT US
photonics.sales@ii-vi.com

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Product Specifications

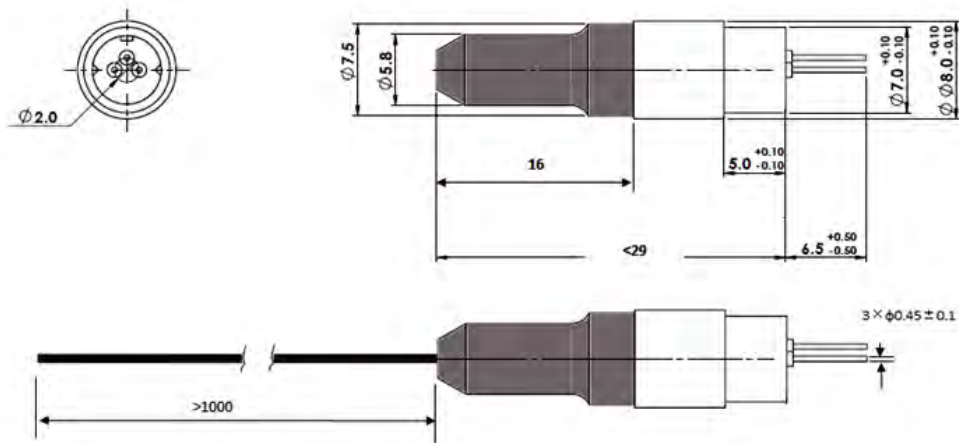| Parameter		Min	Typical	Max	Conditions
Optical					
Wavelength		630 nm	638 nm	645 nm	At P_0 = 1 mW & @ 25°C
Output Power		0.8 mW	1 mW[1]	1.2 mW	At 25°C
Power Stability		-	-	±2.5%	APC, 2 h @ P_0 = 1 mW & 25°C
M Squared		-	-	1.1	
Operating Temperature (case)		Recommended temperature on data sheet			Within case temperature, -10~60°C
Electrical					
LD Working Current		-	20 mA	25 mA	At P_0 = 1 mW & 25°C
LD Working Voltage		-	2.2 V	2.4 V	At P_0 = 1 mW & 25°C
Monitor Current		50 µA	200 µA	500 µA	At P_0 = 1 mW & 25°C
Fiber					
Fiber Type		4.0 µm/125 µm SM fiber			-
Fiber Numerical Aperture		-	0.13	-	-
Fiber Length		1 m	-	-	-
Fiber Jacket (diameter)		900 µm buffer			-
Fiber Termination[2]		Without connector			-
Mechanical					
Laser Head Dimensions	Length	-	28.4 mm	29 mm	-
	Diameter	-	8 mm	-	-
Reliability					
Storage Humidity		5%~85% RH			Non-condensing
Storage Temperature		-20 to 60°C			Non-condensing
Shock		500 g, 1 ms, 5 times/axis, 3 axes tested			
Vibration		5 g, 10-500 Hz, 4 min/cycle, 15 cycles/axis, 3 axes tested			
Expected Lifetime (MTTF)		10,000 h	-	-	At rated power & room temp.

[1]Output power from the fiber termination.
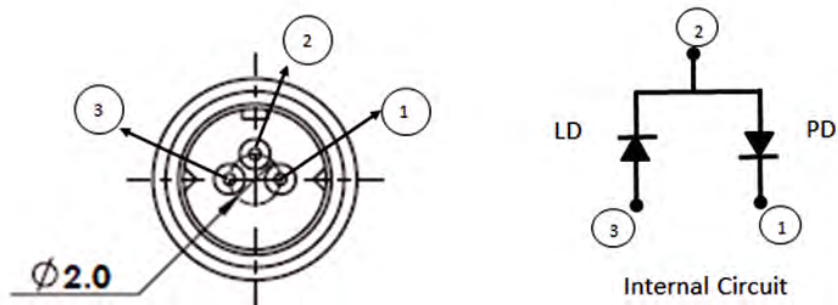[2]FC/APC, FC/PC or SMA905 is optional.

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Dimensions and Pin Configuration (Unit: mm)

Dimensions (Unit: mm)

Pin Configuration

Internal Circuit

1. PD Cathode; 2. COM (LD Cathode, PD Anode); 3. LD Anode