



### Description

Thorlabs' PM Pigtailed Laser Diodes are standard TO-packaged diodes that have been pigtailed to a 1 m long polarization maintaining fiber with an FC/PC connector. The slow axis of the fiber has been aligned to the key of the connector. We test each pigtail before shipment to customers and a unit-specific spec sheet is included with each pigtail; please use the included spec sheet for optimal operating parameters.

### Specifications

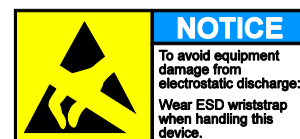
Absolute Maximum Ratings <sup>a</sup>	
LD Reverse Voltage (Max)	2 V
PD Reverse Voltage (Max)	30 V
Operating Temperature	0 to 50 °C
Storage Temperature	-10 to 65 °C

- a. Absolute Maximum Rating specifications should never be exceeded. Operating at or beyond these conditions can permanently damage the laser.

General Specifications	
Diode Size	5.6 mm
Pin Code	A
Fiber	PM780-HP
Connector	FC/PC
Extinction Ratio	≥ 15dB

Optical and Electrical Specifications			
	Min	Typical	Max
Wavelength	775 nm	785 nm	795 nm
Threshold Current <sup>a</sup>	-	30 mA	50 mA
Optical Output Power (P <sub>O</sub> )	-	6.5 mW	7.5 mW
Slope Efficiency <sup>a</sup>	-	0.35 W/A	-
Operating Current @ P <sub>O</sub> = 6.5 mW <sup>a</sup>	-	60 mA	90 mA
Operating Voltage @ P <sub>O</sub> = 6.5 mW <sup>a</sup>	-	1.8 V	-
Monitor Current @ P <sub>O</sub> = 6.5 mW <sup>a</sup>	0.1 mA	-	1.5mA

- a. Temperature = 25 °C

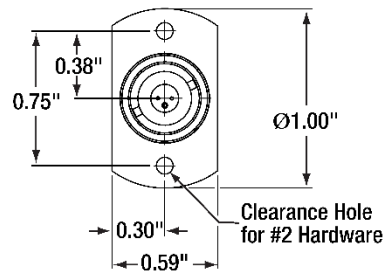


**NOTICE**  
To avoid equipment damage from electrostatic discharge: Wear ESD wriststrap when handling this device.

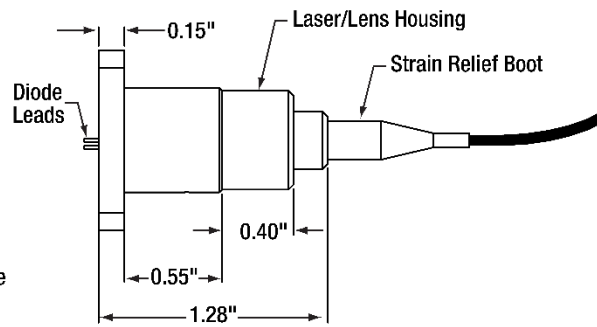


## Drawings

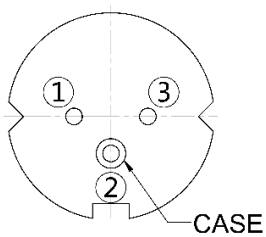
Pigtail Bottom View



Side View



Diode Bottom View



Pin Code A

