



LPS-PM635-FC

Description

Thorlabs' PM Pigtailed Laser Diodes are standard TO-packaged diodes that have been pigtailed to a 1 m long polarization maintaining fiber with a 2.0 mm narrow key 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

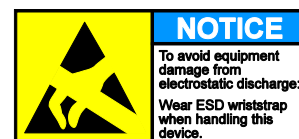
Absolute Maximum Ratings ^a	
LD Reverse Voltage (Max)	2 V
PD Reverse Voltage (Max)	30 V
Operating Temperature	0 to 50 °C
Storage Temperature	-10 to 65 °C

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

General Specifications	
Diode Size	Ø9.0 mm
Pin Code	A
Fiber	PM630-HP
Connector	2.0 mm Narrow Key FC/PC

Optical and Electrical Specifications ^a			
	Min	Typical	Max
Wavelength	625 nm	635 nm	645 nm
Threshold Current ^a	-	42 mA	75 mA
Optical Output Power (P _O)	2.0 mW	2.5 mW	3.0 mW
Slope Efficiency ^a	0.07 mW/mA	0.18 mW/mA	-
Operating Current @ P _O = 2.5 mW ^a	-	60 mA	95 mA
Operating Voltage @ P _O = 2.5 mW ^a	-	2.2 V	2.7
Monitor Current @ P _O = 2.5 mW ^a	0.05 mA	0.17 mA	0.3 mA
Polarization Extinction Ratio	15 dB	-	-

- a. Temperature = 25 °C



Drawings

