



LPS-PM1550-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 an FC/PC connector. The slow axis of the fiber has been aligned to the key of the connector. Each unit is tested before shipment. Please refer to the unit-specific test datasheet for optimal operating parameters.

Specifications

LPS-PM1550-FC Specifications			
LD Reverse Voltage (Max)	2 V		
PD Reverse Voltage (Max)	20 V		
Optical Output Power	1.2 mW (Min)	1.5 mW (Typ.)	1.8 mW (Max)
Operating Temperature	0 to 50 °C		
Storage Temperature	-10 to 65 °C		
Pin Code	5D		
Laser Diode	ML925B45F		
Fiber	PM1550-HP		
Connector	FC/PC		

LPS-PM1550-FC Specifications			
	Min	Typ.	Max
Wavelength	1520 nm	1550 nm	1580 nm
Threshold Current*	3 mA	10 mA	20 mA
Slope Efficiency*	0.15 mW/mA	0.25 mW/mA	0.5 mW/mA
Operating Current @ $P_0 = 1.5 \text{ mW}^*$	10 mA	30 mA	50 mA
Operating Voltage @ $P_0 = 1.5 \text{ mW}^*$	-	1.1 V	1.5 V
Monitor Current @ $P_0 = 1.5 \text{ mW}^*$	0.1 mA	0.5 mA	1 mA
Polarization Extinction Ratio @ $P_0 = 1.5 \text{ mW}^*$	20 dB	23 dB	-

*Temperature = 25 °C

Drawing

