THORLABS

Pigtailed Laser Diode, PMF



Description

LPS-PM1310-FC

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

Drawing

LPS-PM1310-FC Specifications				
LD Reverse Voltage (Max)	2 V			
PD Reverse Voltage (Max)	20 V			
Optical Output Power	2.0 mW	2.5 mW	3.0 mW	
	(min)	(Typ.)	(Max)	
Operating Temperature	0 to 50 °C			
Storage Temperature	-10 to 65 °C			
Pin Code	5D			
Laser Diode	ML725B8F			
Fiber	PM1300-HP			
Connector	FC/PC			

LPS-PM1310-FC Specifications					
	Min	Тур.	Max		
Wavelength	1290 nm	1310 nm	1330 nm		
Threshold Current*	-	5 mA	15 mA		
Slope Efficiency*	0.3 mW/mA	0.5 mW/mA	-		
Operating Current @ P ₀ = 2.5 mW*	-	20 mA	35 mA		
Operating Voltage @ P ₀ = 2.5 mW*	-	1.1 V	1.5 V		
Monitor Current @ P ₀ = 2.5 mW*	0.1 mA	0.5 mA	-		
Polarization Extinction Ratio	20 dB	23 dB	-		

^{*}Temperature = 25 °C

Side View **Pigtail Bottom View** 1.28" 1.09"-0.15" Strain Relief Boot 0.38 Ø1.00" Diode 0.75" Leads 0.30" Fiber 1 m of $0.59^{"}$ PM1300-HP Clearance Hole Laser/Lens Housing for #2 Hardware 2 Places Pin Diagram Wear ESD wriststrap when handling this **Diode Bottom View** 2.00 mm LD PD PIN CODE D