



LP637-SF50

Description

Thorlabs' Single Mode Pigtailed Laser Diodes are standard TO-packaged diodes that have been pigtailed to a 1 m long single mode fiber with an FC/PC connector. Each unit is tested before shipment. Please refer to the unit-specific test datasheet for optimal operating parameters.

Specifications

Absolute Maximum Ratings ^a	
LD Reverse Voltage (Max)	2 V
PD Reverse Voltage (Max)	30 V
Optical Output Power	55 mW
Operating Temperature	0 to 50 °C
Storage Temperature	-10 to 65 °C
Pin Code	5A

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



LP637-SF50 Specifications			
	Min	Typ.	Max
Wavelength	630 nm	637 nm	645 nm
Threshold Current ^b	-	45 mA	65 mA
Optical Output Power	40 mW	50 mW	55 mW
Slope Efficiency ^b	0.15 mW/mA	0.45 mW/mA	-
Operating Current @ P ₀ = 50 mW ^b	-	140 mA	180 mA
Operating Voltage @ P ₀ = 50 mW ^b	-	2.6 V	-
Monitor Current @ P ₀ = 50 mW ^b	-	0.4 mA	-
Fiber Specifications			
Fiber	SM600		
Connector	FC/PC		

- b. Temperature = 25 °C

Drawing

