



T63E-XYZ-WM-S4

635nm Single Mode Fiber Pigtailed Laser Diode, 4/125um SM Fiber, Single Mode Beam



Description

The Lasermate T63E-XYZ-WM-S4 is a 635nm wavelength, fiber coupled laser diode offering up to 1mW output power through a 4/125um single mode fiber. The laser is designed for use in optical fiber checker and light source applications.

Features

- 635nm laser diode
- Operation at -10°C to +50°C
- Built-in monitor photodiode
- Fiber optical output power of 1mW for 4/125um SM fiber with single mode beam
- Common anode pinout

Applications

- Design for optical fiber checker
- Light source

Packaging

- Fiber pigtailed with optional FC connector

Product Overview

The following table lists the available part numbers, as well as the package, connector, output power, and optional mount of each of the part numbers.

Part Number	Package	Connector	Output Power	Pinout Configuration	Mount
T63E-PFC1-20-S4	Pigtailed with 4/125um SM fiber	FC/PC	1mW	Common anode	No flange
T63E-PNO1-20-S4	Pigtailed with 4/125um SM fiber	None	1mW	Common anode	No flange
T63E-PFC1-21-S4	Pigtailed with 4/125um SM fiber	FC/PC	1mW	Common anode	Horizontal mount
T63E-PNO1-21-S4	Pigtailed with 4/125um SM fiber	None	1mW	Common anode	Horizontal mount

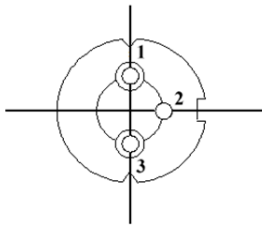


Specifications

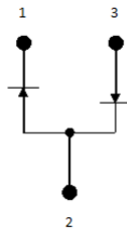
Absolute Maximum Ratings (T _c = 25°C)			
Parameter	Symbol	Rating	Unit
Operating Temperature	T _{op}	-10 to +50	°C
Storage Temperature	T _{stg}	-40 to +85	°C
LD Reverse Voltage	V _{RLD}	2	V
PD Reverse Voltage	V _{RPD}	30	V

Electrical-Optical Characteristics (T _c = 25°C)						
Parameter	Symbol	Min.	Typ.	Max	Unit	Conditions
Lasing Wavelength	λ	625	635	645	nm	
Threshold current	I _{th}	-	27	30	mA	CW
Operating current	I _{op}	-	34	40	mA	
Operating voltage	V _{op}	-	2.0	2.5	Volt	
Optical output power	P _O	-	1	-	mW	4/125 μm SM fiber
Monitor current	I _m	50	150	-	μA	

Pin Configuration



Bottom View



Pin	Function
1	Laser Diode Cathode
2	Laser Diode Anode, Photodiode Cathode
3	Photodiode Anode

