


T65E-XYZ-WM 650nm Fiber Coupled Laser Diodes

With 9/125 μ m SM Fiber and Multimode Beam

	Read Model No.	T65E-XYZ-WM
	T65E = Laser	650 nm laser
	X = Package	Pigtailed with 9/125 μ m SM fiber (X=P)
	Y = Connector	SC/PC (Y=SC), ST/PC (Y=ST), FC/PC (Y=FC)
	Z = Output power	1mW (Z=1), 2mW (Z=2)
	W = Pinout configuration	Common anode (W=2)
	M = Mount	No flange (M=0), Horizontal mount (M=1)

Features

- 650nm laser diode
- Operation at -10°C to +70 °C
- Built-in monitor photodiode
- Fiber optical output power >1mW and >2mW for 9/125 μ m SM fiber

Packaging

- Fiber pigtailed with optional FC/SC/ST connector

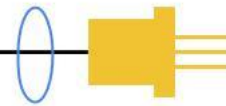
Applications

- Design for optical fiber checker
- Light source

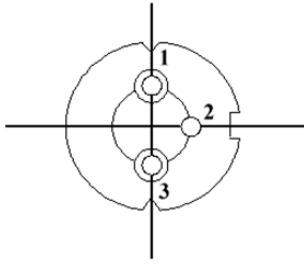
Specifications

Absolute Maximum Ratings ($T_c = 25^\circ\text{C}$)			
Parameter	Symbol	Rating	Unit
Operating Temperature	T_{op}	-10 to +70	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +85	$^\circ\text{C}$
LD Reverse Voltage	V_{RLD}	2	V
PD Reverse Voltage	V_{RPD}	30	V

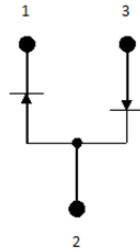
Electrical-Optical Characteristics ($T_c = 25^\circ\text{C}$)						
Parameter	Symbol	Min.	Typ.	Max	Unit	Conditions
Lasing Wavelength	λ	645	650	660	nm	
Threshold current	I_{th}	-	20	-	mA	CW
Operating current	For Z=1	-	25	-	mA	
	For Z=2	-	27	-	mA	
Operating voltage	V_{op}	-	2.2	2.5	Volt	
Optical output power	For Z=1	1			mW	9/125 μ m SM fiber
	For Z=2	2			mW	
Monitor current	I_m	50	120	400	μA	



Pin Configuration

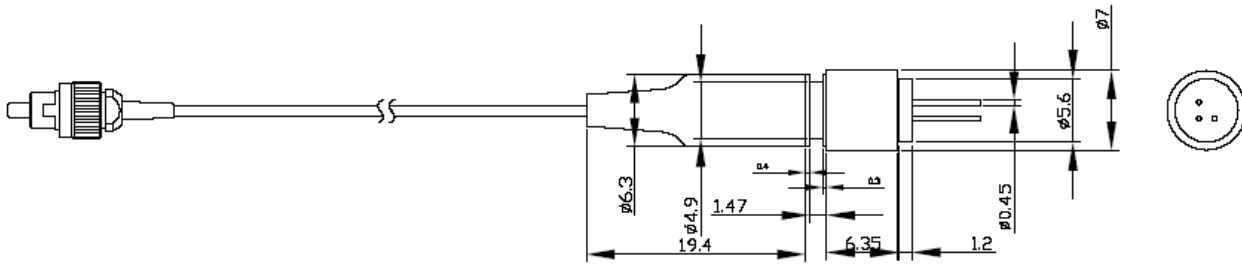


Bottom View

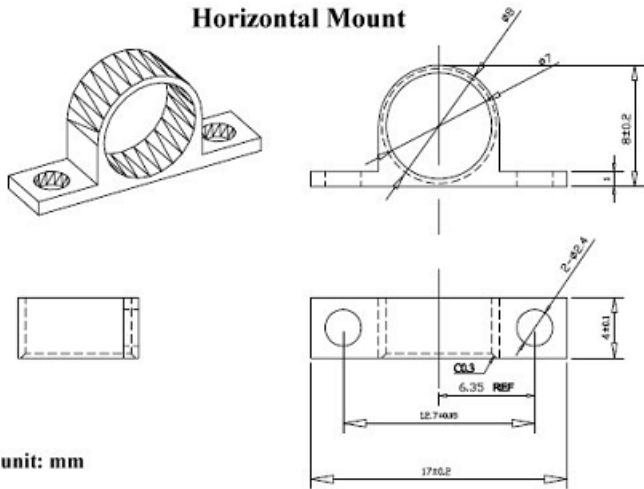


- 1. Laser diode cathode
- 2. Laser diode anode
Photodiode cathode
- 3. Photodiode anode

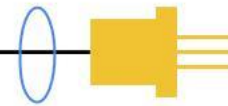
Mechanical Outline (unit: mm)



Horizontal Mount



unit: mm



Ordering Information

Part Number	Package	Connector	Output Power	Mount
T65E-PSC1-20	Pigtailed with 9/125um SM fiber	SC/PC	1mW	No flange
T65E-PST1-20	Pigtailed with 9/125um SM fiber	ST/PC	1mW	No flange
T65E-PFC1-20	Pigtailed with 9/125um SM fiber	FC/PC	1mW	No flange
T65E-PSC1-21	Pigtailed with 9/125um SM fiber	SC/PC	1mW	Horizontal mount
T65E-PST1-21	Pigtailed with 9/125um SM fiber	ST/PC	1mW	Horizontal mount
T65E-PFC1-21	Pigtailed with 9/125um SM fiber	FC/PC	1mW	Horizontal mount
T65E-PSC2-20	Pigtailed with 9/125um SM fiber	SC/PC	2mW	No flange
T65E-PST2-20	Pigtailed with 9/125um SM fiber	ST/PC	2mW	No flange
T65E-PFC2-20	Pigtailed with 9/125um SM fiber	FC/PC	2mW	No flange
T65E-PSC2-21	Pigtailed with 9/125um SM fiber	SC/PC	2mW	Horizontal mount
T65E-PST2-21	Pigtailed with 9/125um SM fiber	ST/PC	2mW	Horizontal mount
T65E-PFC2-21	Pigtailed with 9/125um SM fiber	FC/PC	2mW	Horizontal mount

Additional Notes

- The laser diodes are designated solely as OEM components for incorporation into the customer's end products. Therefore, it is the customer's responsibility to comply with the appropriate requirements of FDA 21CFR, section 1040.10 and 1040.11 for complete laser products. For the code of FDA regulations, please refer to [FDA Performance Standards for Light-Emitting Products](#) for detailed information.
- Specifications are subject to change without notice.