



Features

- Laser diode with multi-quantum-well structure
- Uncooled operation at -40~+85 ℃
- For Single-mode and Multi-mode Application
- High Optical Power
- High Speed

Packaging

- 8 Pin Package with ST Port

Application

- Design for fiber optic networks
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25)

Parameter	Symbol	Rating	Unit
Operating Current	I _{op}	100	mA
LD Reverse Voltage	V _{RLD}	2	V
PD Reverse Voltage	V _{RPD}	10	V
PD Forward Current	I _{FPD}	2	mA
Operating Temperature	T _{opr}	-40 ~ 85	
Storage Temperature	T _{stg}	-40 ~ 85	

(All optical data refer to coupled 9/125 μ m SM & 50/125 μ m MM fiber)

Optical and Electrical Characteristics (Tc=25 ℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Threshold Current	I _{th}	-	6	15	mA	CW
Fiber Output Power (SM, 9/125μm) (MM, 50/125μm)	P _f	1.7 3.4	- -	- -	mW	CW, I _{op} =70mA
Peak Wavelength		1290	1310	1330	nm	CW, P _f = P _f (Min)
Spectral Width		-	2	5	nm	CW, P _f = P _f (Min)
Forward Voltage	V _F	-	1.2	1.6	V	CW, P _f = P _f (Min)
Rise/Fall Time	T _r / T _f	-	-	0.5	ns	I _{bias} =I _{th} , 10%~90%
Tracking Error	P _f / P _f	-1.5	-	1.5	dB	APC, -40 to +85 ℃
PD Monitor Current	I _m	100	-	-	μ A	CW, P _f = P _f (Min), V _{RPD} =2V
PD Dark Current	I _{dark}	-	-	0.1	μ A	V _{RPD} =5V
PD Capacitance	C _t	-	6	20	pF	V _{RPD} =5V, f =1MHz

Note: 1. ESD precautions must be taken when handling this product.

2. Specifications subject to change with notice.

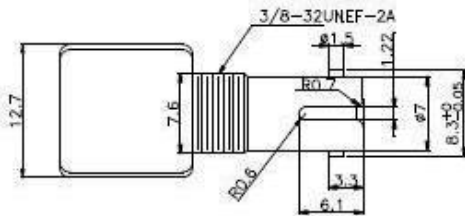
3. Pin assignment can be custom specified.

Pinout Assignment

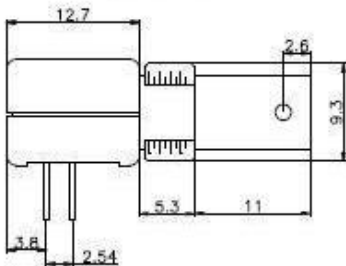
PIN	FUNCTION
1	N.C.
2	PD-
3	LD-
4	N.C.
5	N.C.
6	LD+
7	PD+
8	N.C.

Mechanic Dimension (Units in mm)

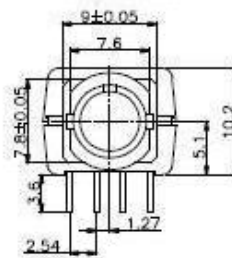
TOP VIEW



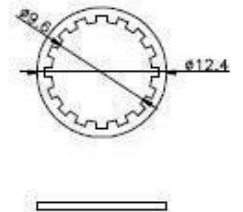
RIGHT VIEW



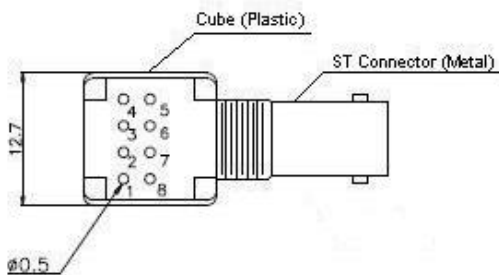
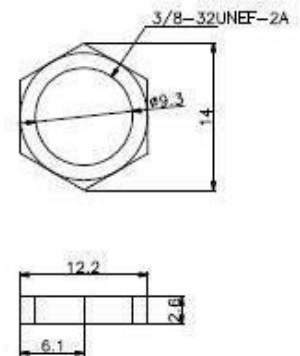
FRONT VIEW



WASHER (Metal)

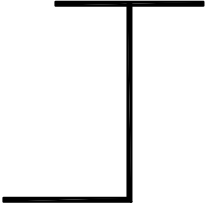


SCREW NUT (Metal)



Ordering Information

C-13-1315T-08-XX



RoHS Compliant
Blank/G5/GR
Blank = RoHS non-compliant product
G5 = RoHS 5/6-compliant product (lead exemption)
GR = Full RoHS compliant product (no exemption)

Warnings

Handling Precautions: This device is susceptible to damage as a result of electrostatic discharge (ESD). A static free environment is highly recommended. Follow guidelines according to proper ESD procedures.

Laser Safety: Radiation emitted by laser devices can be dangerous to human eyes. Avoid eye exposure to direct or indirect radiation.

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