



**Features**

- Laser diode with multi-quantum-well structure
- Un-cooled operation at -40~+85 °C
- For Single-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 °C)**

Parameter	Symbol	Rating	Unit
Operating Current	I <sub>op</sub>	100	mA
LD Reverse Voltage	V <sub>RLD</sub>	2	V
Operating Temperature	T <sub>opr</sub>	-40 ~ 85	
Storage Temperature	T <sub>stg</sub>	-40 ~ 85	

**(All optical data refer to coupled 9/125 μ m SM fiber)**

**Optical and Electrical Characteristics (Tc=25 °C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Threshold Current	I <sub>th</sub>	-	6	20	mA	CW
Fiber Output Power	P <sub>f</sub>	-17	-15	-13	dBm	CW, I <sub>op</sub> = 31mA
Peak Wavelength		1290	1310	1330	nm	CW, P <sub>f</sub> = P <sub>f</sub> (Min)
Spectral Width (RMS)		-	2	5	nm	CW, P <sub>f</sub> = P <sub>f</sub> (Min)
Forward Voltage	V <sub>F</sub>	-	1.2	1.6	V	CW, P <sub>f</sub> = P <sub>f</sub> (Min)
Rise/Fall Time	T <sub>r</sub> / T <sub>f</sub>	-	-	0.5	ns	I <sub>bias</sub> =I <sub>th</sub> , 10%~90%

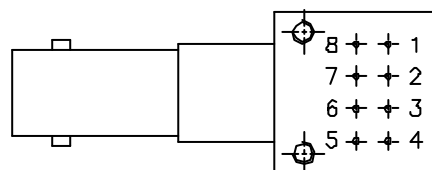
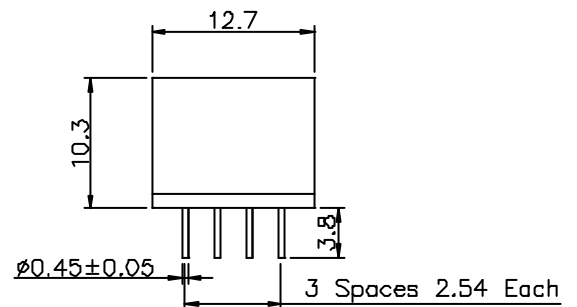
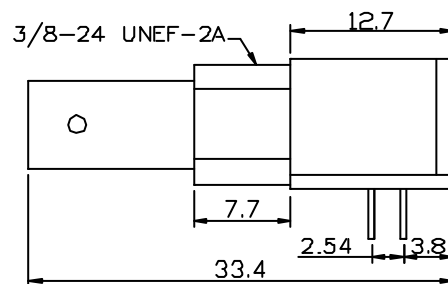
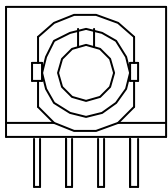
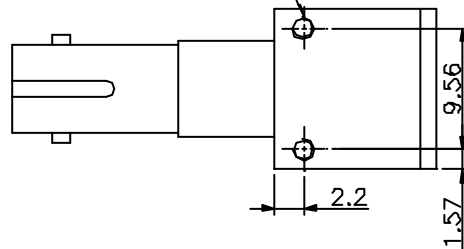
- Note:**
1. ESD precautions must be taken when handling this product.
  2. Specifications subject to change with notice.
  3. Pin assignment can be custom specified.

### Pinout Assignment

PIN	FUNCTION
1	Case GND
2	Anode
3	Cathode
4	Case GND
5	Case GND
6	Anode
7	Anode
8	Case GND

### Mechanic Dimension (Units in mm)

(2)#2-56 UNF-2B-Thread Thru



**Ordering Information**

# C-13-1315T-09-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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