# 1310nm Laser Diode Transmitter

## C-13-1315T-01-XX



#### Features

- Laser diode with multi-quantum-well structure
- Un-cooled operation at -40~+85°C
- For Singlemode Applictaion
- High Optical Power
- High Speed
- 8 Pin Package with ST Port
- Design for fiber optic networks
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25°C)						
Parameter	Symbol	Rating	Unit			
Oprating Current	lop	100	mA			
LD Reverse Voltage	V <sub>RLD</sub>	2	V			
Operating Temperature	T <sub>opr</sub>	-40 ~ 85	°C			
Storage Temperature	T <sub>stg</sub>	-40 ~ 85	°C			

## (All optical data refer to a coupled 9/125µm S/M fiber)

Optical and Electrical Characteristics (Tc=25°C)						
Parameter	Symbol	Min	Тур	Мах	Unit	<b>Test Conditions</b>
Threshold Current	I <sub>th</sub>	-	12	20	mA	CW
Fiber Output Power	Pf	120	-	220	μw	CW, lop=40mA
Peak Wavelength	λ	1290	1310	1330	nm	CW, $P_f = P_f$ (Min)
Spectral Width (RMS)	Δλ	-	2	5	nm	CW, $P_f = P_f$ (Min)
Forward Voltage	VF	-	1.2	1.6	V	CW, $P_f = P_f$ (Min)
Rise/Fall Time	t/t <sub>f</sub>	-	-	0.5	ns	$I_{bias} = I_{th}$ , 10~90%

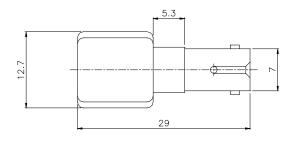
### Note: 1.ESD precasutions must be taken when handling this product.

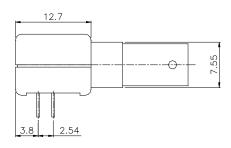
2.Specifications subject to change with notice.

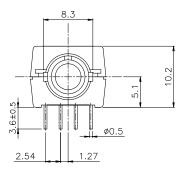
3.Pin assignment can be custom specified.

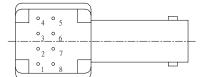
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Pinout Assignment

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

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**Ordaeing Information** 

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RoHS Compliant

-/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.

#### Legal Notice

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