

## 1310nm /1550nm DFB Coaxial laser diode module

### Features

- Advanced Multiple Quantum Well (MQW) laser
- Distributed Feedback (DFB) Laser Design
- Low Threshold Current
- Built-in InGaAsP monitor PD
- Cost-effective Uncooled Laser Technology
- 5.6-mm TO-style Package with SMF coupling

### Application

- CATV Return-Patch
- Analog Transmission
- Light Source
- Sensor
- Data Transmit
- OTDR

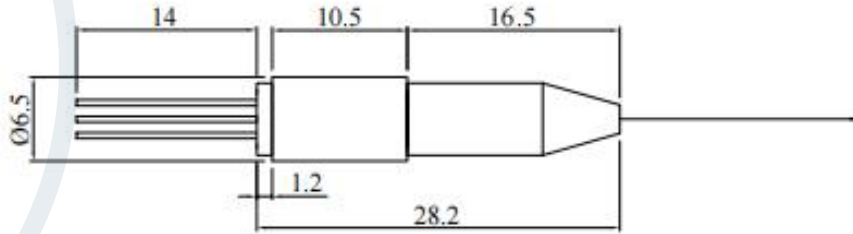
### Absolute Maximum Ratings (Tc=25°C .unless otherwise specified)

Parameter	Symbol	Min.	Max.	Unit	Test Condition
Laser Forward Current	I <sub>FP</sub>	-	-	120	mA
Reverse Voltage	V <sub>R</sub>		2	V	CW
Operating Temperature	T <sub>OP</sub>	-20	+70	°C	
Storage Temperature	T <sub>stg</sub>	-40	+100	°C	-
Soldering Temperature/Time	-		260/10	°C/S	-

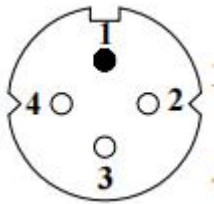
## Optical & electrical characteristics (Tc=25°C)

Parameter	Symbol	Min	Typ.	Max.	Unit	Test Conditions
Optical Output Power	Po	0.1	-	10.0	mW	CW,DFB,25°C
Threshold Current	Ith		10	15	mA	DFB,25°C
Operating Current	Iop	-	20	50	mA	CW,Po=2mW,DFB,25°C
		-	45	75		CW,Po=2mW,DFB,70°C
Forward Voltage	VF	-	1.1	1.6	V	CW,Po=2mW,25°C
Center Wavelength	$\lambda_c$	1305	1310	1315	nm	CW, DFB,25°C
		1545	1550	1555		
Spectral Width (-20 dB )	$\Delta \lambda$	-	0.5	-	nm	CW, 25°C
Side Mode Suppression Ratio	SMSR	30	40	-	dB	25°C
Monitor Dark Current	ID	0.08	0.5	-	mA	CW, Ith+20mA
Optical Isolation	ISO	30	-	-	dB	25°C
Modulation Bandwidth	BW	2.5	-	-	GHz	-3dB,Po=2mW
Tracking Error	ER	-1.0	-	1.0	dB	Im hold@Po=1mW,25°C,CW Tc=-45°C ~ +85°C
Rise Time/ Fall Time	TR/TF	-	0.3	0.7	ns	CW, Ith+20mA

## Dimensions(mm)



## Pin Assignment



	Type A		Type C
1	LD + / Case	1	Case
2	LD -	2	LD -
3	PD -	3	PD +
4	PD +	4	LD + / PD -

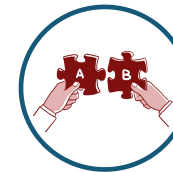
## Order Information

GTA1001 (1310nm DFB Coaxial laser series)

GTA1002 (1550nm DFB Coaxial laser series)



Please let us know your request details before order.



Customize for you

