

## Features :

- ✓ Laser welded package
- ✓ Single fiber LC Receptacle type
- ✓ Integrated P2P compliant WDM Filter
- ✓ High output power uncooled FP Laser Diode
- ✓ High sensitive PIN- TIA
- ✓ ROHS Compliant Products Available

## Applications :

- Telecommunication
- Data Communication
- P2P

## Standard :

- Compliant with Telcordia GR-468 reliability test criterion
- Compliant with RoHS6 standard
- Compliant with GR-326 connector qualification standard

## —The main photoelectric and environmental indicators of products :

1. Absolute Maximum Ratings ( 25°C )



Parameter	Symbol	Min.	Max.	Unit
Storage Temperature		-40	85	°C
Operating Case Temperature	Top	0	70	°C
LD Reverse Voltage	V <sub>RL</sub>	---	2	V
Photodiode Reverse Voltage (MPD)	V <sub>RD</sub>	---	6	V
Photodiode Forward Current(MPD)	I <sub>FD</sub>	---	2	mA
LD Forward Current	I <sub>FL</sub>	---	100	mA
TIA Operating voltage	V <sub>CC</sub>	-0.4	4	V
Hand Lead Soldering (Temperature)/(Time)	---	---	260/10	°C/Sec

## 2. Transmitter Optical And Electrical Characteristics ( 25°C )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Threshold Current	I <sub>th</sub>	---	---	15	mA	CW, Tc=25°C
		---	---	30		CW, Tc=0~70°C,
Output Optical Power	P <sub>f</sub>	0.18		0.4	mW	CW, I <sub>op</sub> = 21mA
Center Wavelength	λ <sub>c</sub>	1290	1310	1330	nm	I <sub>op</sub> =I <sub>th</sub> +20mA
Operating Voltage	V <sub>f</sub>	---	1.2	1.5	V	CW, I <sub>op</sub> =I <sub>th</sub> +20mA
Spectrum Width (RMS)	Δλ	---	---	3.0	nm	P <sub>op</sub> =I <sub>th</sub> +20mA, K=1
Monitor Current	I <sub>m</sub>	100	---	600	uA	I <sub>op</sub> = 21mA
Monitor Dark Current	I <sub>d</sub>	---	---	100	nA	V <sub>rd</sub> =1.7V
Tracking Error	TE	-1.5	---	1.5	dB	CW, 0°C /+70°C, , Montior current hold @ I <sub>op</sub> = I <sub>th</sub> + 20 mA

### 3.Receiver Optical and Electrical Characteristics ( 25°C )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Operating Wavelength	$\lambda$	1520	1550	1580	nm	---
Supply Voltage	Vcc	3.0	3.3	3.6	V	---
TIA Supply Current	Icc	18	---	35	mA	Vcc=3.3V
Sensitivity	Sen.	---	---	-25	dBm	$\lambda = 1550\text{nm}$ , NRZ , 1.25Gbps, PRBS=2 <sup>7</sup> -1, ER=9~10dB,BER=10 <sup>-10</sup> , CW
Overload Power	Pol	-3	---	---	dBm	$\lambda = 1550\text{nm}$ ,PRBS=2 <sup>7</sup> -1, ER=9~10dB,BER=10 <sup>-10</sup> , @1.25Gbps,

4、 ESD  $\pm 500\text{V}$  (HBM)

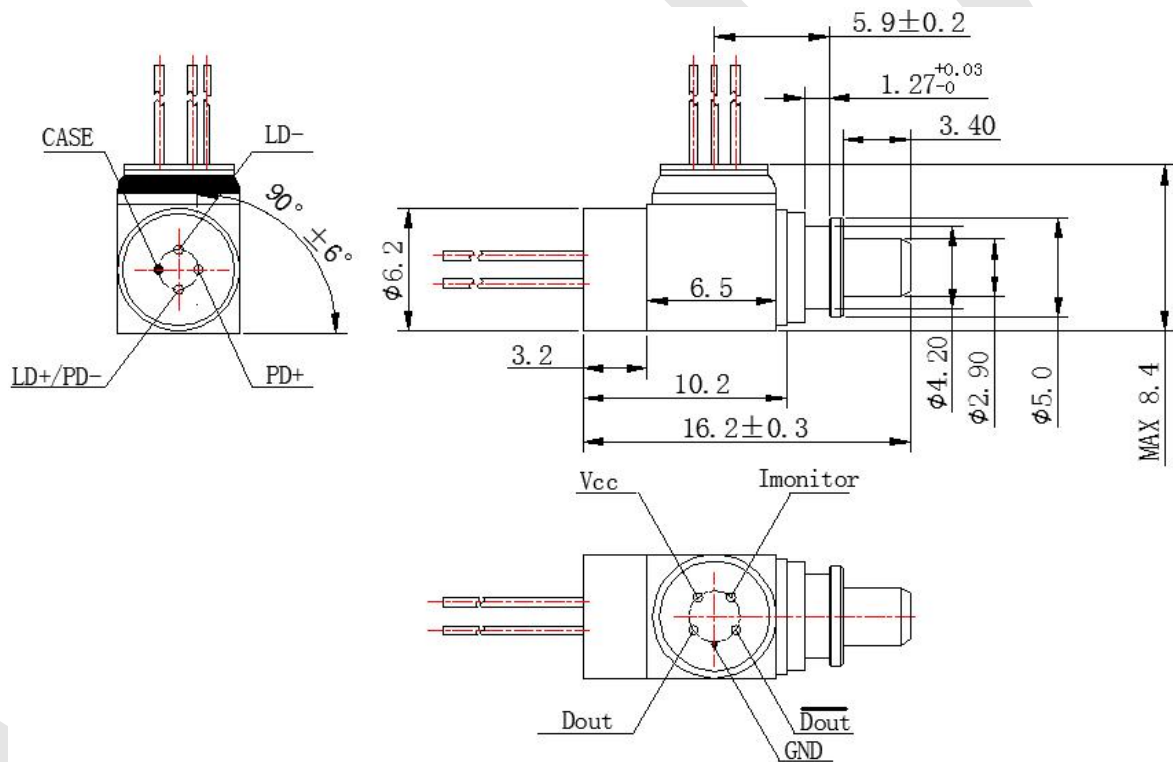
5. RX GND Pin and BOSA BASE satisfies the requirement of insulation

### 二 : The mechanical parameters

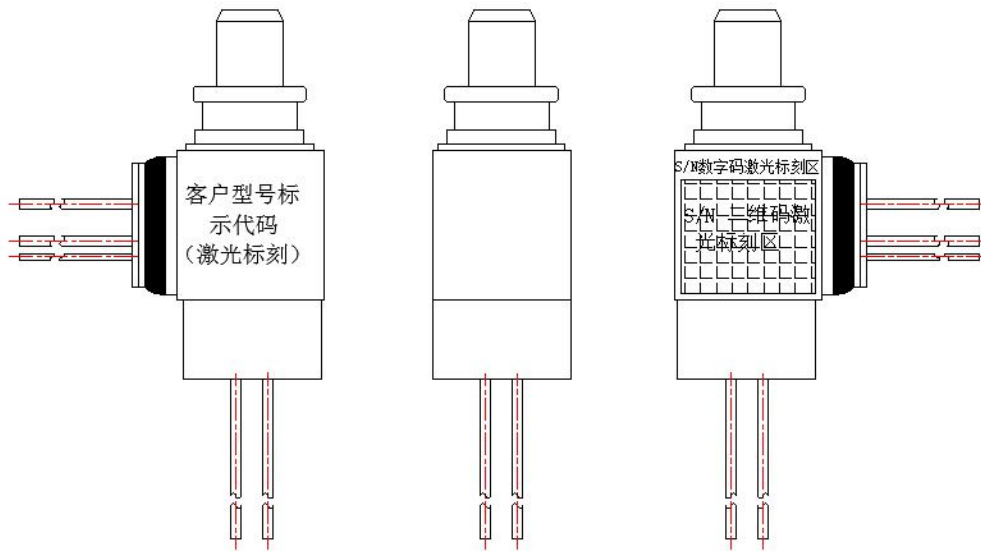
Parameters	Unit	Conditions	Min.	Max.
The main mechanical size	mm	Reference structure diagram		
The shear strength	N	vertical	300	---
LD drawing force	N	horizontal	300	---
PD drawing force	N	vertical	150	---

### 三 . Product structure drawing

Note :The product BASE adopts MIM structure 。 The laser welding is used at the TX. Adhesive is used at the RX.



### 四 . MARK



Note : Customer type identification code is customizable,if there is no demand, it is empty.

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