

**Features**

- InGaAsP/InP MQW-DFB Laser
- Signal Rate up to 1.25Gb/s
- High Output Power
- Coaxial Pigtail Package
- With an internal optical isolator

**产品特点**

- 非制冷多量子阱 DFB 激光器
- 传输速率可达 1.25Gb/s
- 高输出功率
- 同轴带尾纤封装
- 内置光隔离器



**Application**

- Telecommunication
- Data Communication

**Absolute Maximum Ratings**

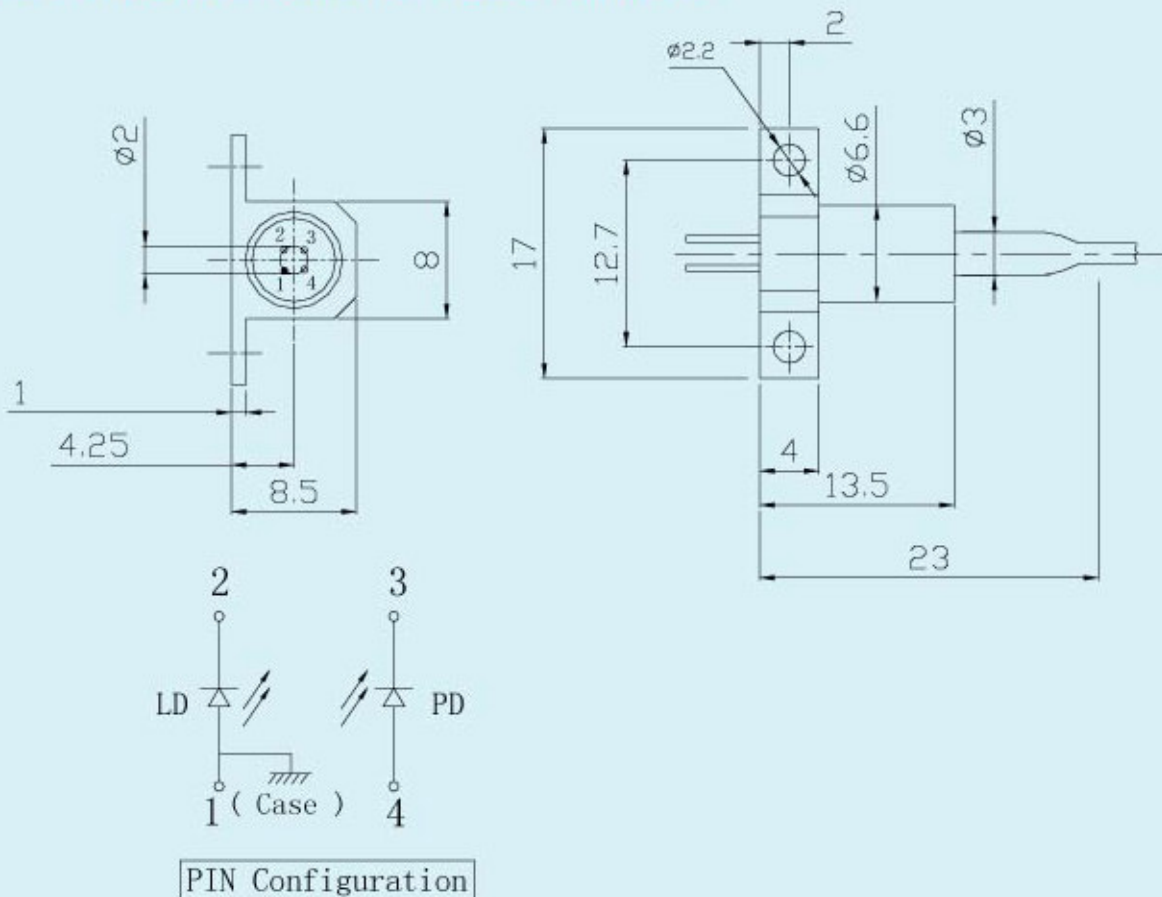
Parameter	Symbol	Min	Max	Unit
Reverse Voltage of LD	Vrl		2	V
Forward Current of PD	Ifd		2	mA
Reverse Voltage of PD	Vrd		20	V
Operating Case Temperature	Tc	-20	+70	°C
Storage Temperature	Tstg	-40	+85	°C
Lead Soldering Temperature/Time	Tsld		260/10	°C/S
connector Reflection	Rf	40		dB

**Electrical and Optical Characteristics** ( Tc=25°C, unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit	
Threshold current	Ith	CW	-	10	15	mA	
Optical output power	Pf	CW, If=Iop	1.0	-	2.0	mW	
Operating current	Iop	CW, Pf=1.0mW	20	30	40	mA	
Operating voltage	Vf	CW	-	1.2	1.8	V	
Slope efficiency	Se	CW	0.05	-	0.10	W/A	
Peak wavelength	$\lambda_p$	CW, If=Iop	1470	1467	1470	1473	nm
			1490	1487	1490	1493	
			1510	1507	1510	1513	
			1530	1527	1530	1533	
			1550	1547	1550	1553	
			1570	1567	1570	1573	
			1590	1587	1590	1593	
			1610	1607	1610	1613	

Spectral Width	$\Delta \lambda$	CW, $I_f=I_{op}$ -20dB down	-	-	1.0	nm
Side-mode suppression ratio	SMSR	CW, $I_f=I_{op}$	30	-	-	dB
Optical Isolation	Iso	-	35	-	-	dB
Tracking error	$E_r$	$I_m$ hold (@ $P_f=1mW(25^\circ C)$ ), $T_c=0\sim+70^\circ C$ , APC	-1.0	-	1.0	dB
Rise and Fall time	$T_r / T_f$	$I_b=I_{th}, 10\sim90\%$	-	0.2	0.4	ns.
Monitor current	$I_m$	CW, $I_f=I_{op}$ , $V_{RD}=5V$	100	-	-	$\mu A$
Capacitance (PD)	$C_t$	$V_{rd}=5V, f=1MHz$	-	10	20	pF
Dark current (PD)	$I_d$	$V_{rd}=5V$	-	0.1	0.5	$\mu A$

■ Package Dimensions and Pin Description



■ **Ordering Information**

**STC**       -        -     -

Package Type	Isolator	Data Rate (b/s)	Operation Temperature	Output power (μW)	Flange & Mounting Bracket Type	Connector	Wavelength (nm)
1: 3 Pin pigtail	0: No	1: 155M	1: 0~+70℃	1: 100~500	0: No	0: No	47: 1470 47: 1490 51: 1510
3: 4 Pin pigtail	1: Yes	2: 622M	2: -40~+85℃	2: 500~1000	1: Ω Flange	1: FC/PC	53: 1530 55: 1550 57: 1570
		3: 1.25G		3: 1000~2000		2: FC/APC	59: 1590 61: 1610
		4: 2.5G		4: 2000~		3: SC/PC 4: SC/APC	
						5: ST/PC	
						6: LC/PC	