

Receptacle LD TOSA

Features:

- MQW-FP & DFB laser diode
- Low threshold current, Low operating current
- High reliability, Long operation life
- Wide temperature range Operation
- Rohs Compliant

Applications:

- Ethernet, SONET
- FTTH System



Optical and electrical Characteristics

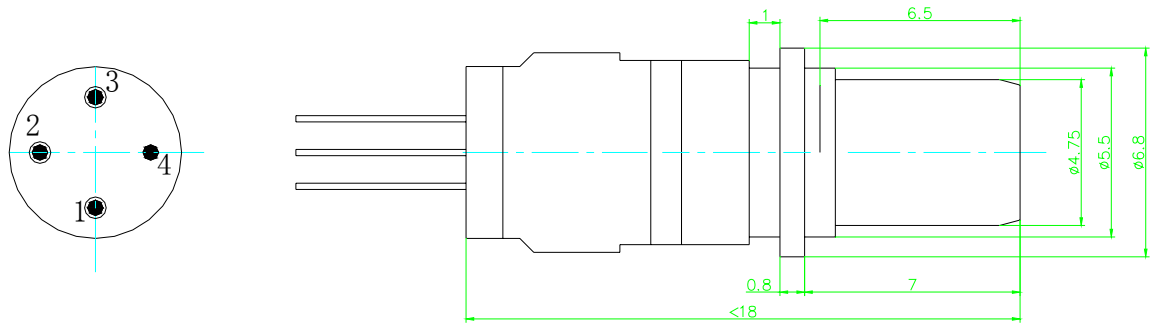
Parameter	Test condition	Symbol	Min	Typ	Max	Unit
Wavelength	If=Ith+20mA	λ_p	1280	1310	1340	nm
			1530	1550	1570	
Spectral width	DFB	$\Delta\lambda$		2	4	
		$\Delta\lambda$		0.1	1	
Threshold current	CW 1310nm	Ith		7	15	mA
	CW 1550nm			10	15	
Forward voltage	If=Ith+20mA	V		1.1	1.5	V
Output power	If=Ith+20mA	Po	-8			dBm
			-8			
Rise and Fall Time	Ib=Ith, 10-90%	tr, tf		0.3	0.7	ns
	2.5Gb/s				0.15	
PD dark current	Vr= - 5V	Id		0.01	0.1	μ A
Photodiode current	If=Ith+20mA	Im		0.5	1	mA
SMSR(DFB)	Po=2.0mW	SMSR	30	40		dB

Absolute Maximum Ratings

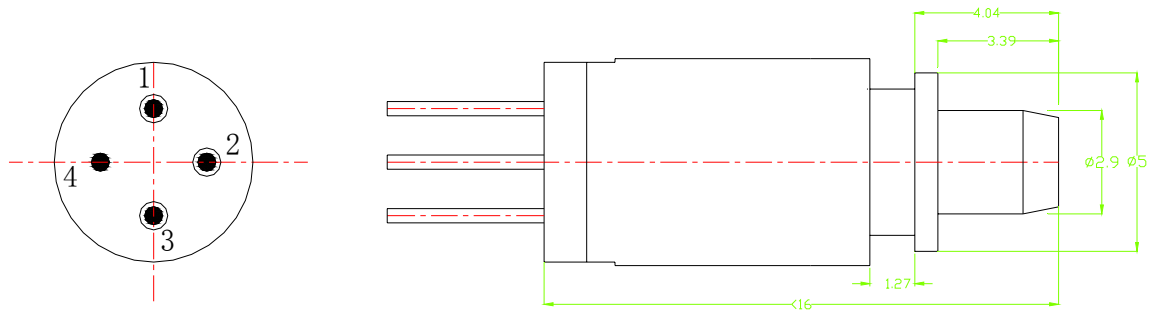
Parameter	Test condition	Ratings	Unit
Operating temperature		-40~+85	$^{\circ}$ C
	DFB	-20~+85	$^{\circ}$ C
Storage temperature		-40~+100	$^{\circ}$ C
Reverse voltage(LD)	CW	2.0	V
Forward Current(PD)		2	mA
Reverse voltage(PD)		15	V
Operating Current(LD)		100	mA

Assembly Package

1、 SC TOSA



2、 LC TOSA



Pin Assignment

PN	Laser Diode Type A	Laser type C
1	LD cathode	LD cathode
2	PD Cathode	PD anode
3	PD anode	LD anode/ PD Cathode
4	LD anode & Case	GND

Ordering Information:

STO-ABCDEFG

A(LD type)	B(LD wave)	C(Power)	D(Data rate)	E(Pinout)	F (Package)	G(Isolation)
F-FP	1-650nm	1\ -10-15dBm	1\ 1.25GB/S	A	SC	N
D-DFB	2-850nm	2\ -8~-10dBm	2\ 2.5Gb/s	C	FC	I
E-LED	3-1310nm	3\ -3~-8dBm	3\ 10Gb/s		LC	
	4-1490nm	4\ 0~-3dBm			ST	
	5-1550nm	5\ +3~0dBm				
	6-1625nm	6\ +6~+3dBm				
	7-CWDM	7\ >+6dBm				