

LC-TOSA 10G 1310nm DFB With Isolator

OSMLC-D10AD20G



Features

- ◆ Direct modulated and uncooled operation at 1310nm wavelength
- ◆ High-stability MQW-DFB laser Diode
- ◆ Built-in InGaAsP monitor photodiode
- ◆ Coaxial LC TOSA package
- ◆ Built-in optical isolator
- ◆ Up to 10 km

Applications

- ◆ Supports performance up to 10.7 Gb/sec bit rate, -5°C to +75°C operating
- ◆ 10 Gigabit Ethernet
- ◆ LR1 SONET/ SDH OC-192/ STM-64

1. Absolute Maximum Ratings

(Unless specified else, the specifications below are defined at $T_C=25\pm 3^\circ\text{C}$)

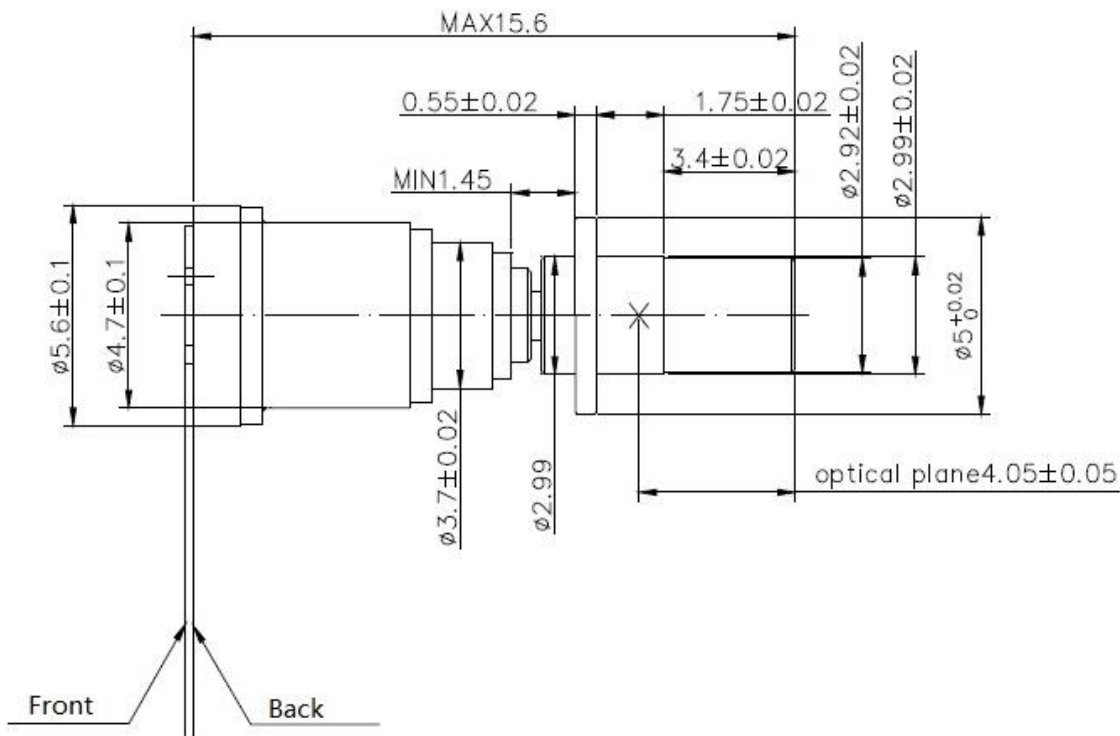
Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	Tstg	-40	85	°C
Operating Case Temperature	Topr	-5	75	°C
Reverse Voltage(LD)	V_{RL}	---	2	V
Forward Current (LD)	I_{LD}	---	120	mA
Lead Soldering (Temperature)/(Time)	---	---	260/10	°C/Sec

2. Electrical and Optical Characteristics

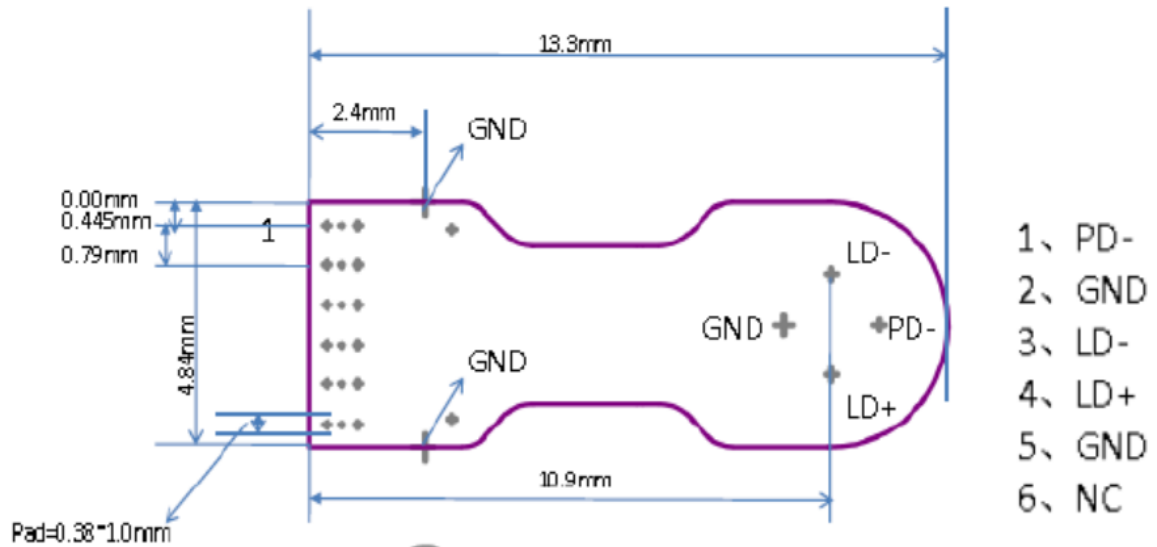
(Unless specified else, the specifications below are defined at TC=25±3°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note	Inspection
Output Optical Power	Pf	0.3	---	0.8	mW	CW, I _{op} =I _{th} +20mA,	100%inspection
Threshold Current	I _{th}	---	8	15	mA	---	100%inspection
Peak Wavelength	λ _p	1300	1310	1320	nm	CW	---
Side mode suppression ratio	SMSR	---	35	---	dB	CW	---
Operating Voltage	V _{op}	---	1.5	2.0	V	CW, I _{op} =I _{th} +20mA,	100%inspection
Monitor Current	I _m	0.05	---	1.0	mA	CW, I _{op} =I _{th} +20mA,	100%inspection
Monitor Dark Current	I _d	---	---	0.1	μA	V _{RD} =5V	---
Optical Isolation	ISO	30	---	---	dB	---	---
Tracking Error	TE	-1.5	---	1.5	dB	I _{op} =I _{th} +20mA, -5°C/+25°C, +25°C	---

3. Package Dimension/ Pin Package Drawing: (unit: mm)



FPC



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