

LC-TOSA 10G 1310nm FP Without Isolator

HELC-F10AD20

**Features**

- ◆ Direct modulated and uncooled operation at 1310nm wavelength
- ◆ High-stability MQW-FP laser Diode
- ◆ Coaxial LC TOSA package
- ◆ Up to 10 km

Applications

- ◆ Supports performance up to 10 Gb/sec bit rate, 20°C to +80°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 $T_c=25\pm 3^\circ\text{C}$)

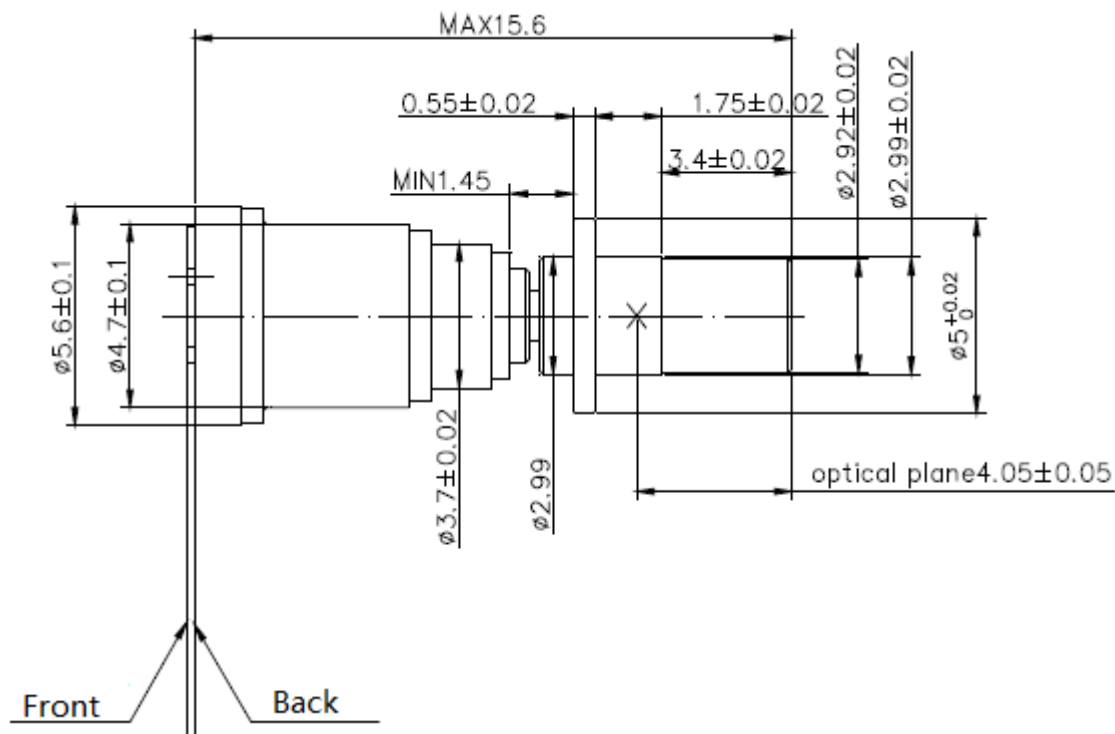
Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	Tstg	-40	100	°C
Operating Case Temperature	Topr	-40	85	°C
Reverse Voltage(LD)	V_{RL}	---	2	V
Reverse Voltage(PD)	V_{RD}	---	6	V
Photodiode Forward Current(PD)	I_{FD}	---	1	mA
Forward Current (LD)	I_{LD}	---	100	mA
Lead Soldering (Temperature)/(Time)	---	---	260/10	°C/Sec

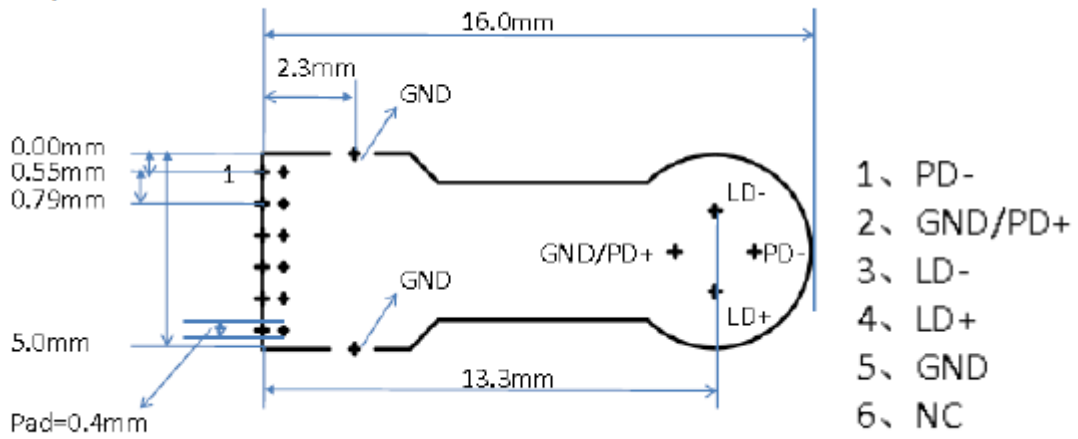
2、 Electrical and Optical Characteristics

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note	Inspection
Output Optical Power	Pf	0.3	---	0.8	mW	CW, Iop=Ith+30mA,	100%inspection
Threshold Current	Ith	---	8	15	mA	at Tc=25±3°C	100%inspection
Peak Wavelength	λp	1290	1310	1330	nm	CW, Iop=Ith+30mA,	---
Spectral Width	Δλ	---	---	2.4	nm	CW, Iop=Ith+30mA, (-20dB)	---
Operating Voltage	Vop	---	---	1.6	V	CW, Iop=Ith+30mA,	100%inspection
Monitor Current	Im	0.1	---	1.0	mA	CW, Iop=Ith+30mA,	100%inspection
Monitor Dark Current	Id	---	---	0.1	μA	---	---
Rise/Fall Time	Tr/ Tf	---	---	45	ps	20%~80%	---
Tracking Error	TE	-1.5	---	1.5	dB	APC, -40°C/+25°C, +25°C/+85°C	---

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



FPC(FRONT)

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