

HELC-D10AD20G

ghEasy

Features

- Direct modulated and uncooled operation at 1310nm wavelength
- ♦ High-stability MQW-DFB laser Diode
- Built-in InGaAsP monitor photodiode
- Coaxial LC TOSA package (5pin)
- Built-in optical isolator
- Up to 10 km



Applications

- ◆ Supports performance up to 10.7 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 $T_{C}\text{=}25\text{\pm}3\,^{\circ}\text{C}$)

Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	Tstg	-40	85	°C
Operating Case Temperature	Topr	-20	85	°C
Reverse Voltage(LD)	V _{RL}		2	V
Reverse Voltage(PD)	V _{RD}		20	V
Photodiode Forward Current(PD)	I _{FD}		2	mA
Forward Current (LD)	I _{LD}		120	mA
Lead Soldering (Temperature)/(Time)			260/10	°C /Sec

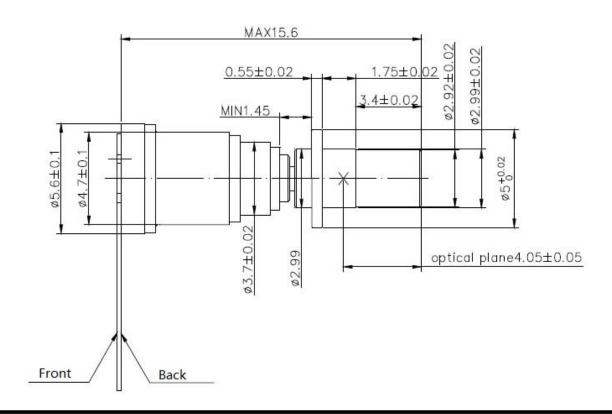


2. Electrical and Optical Characteristics

Parameter	Symbol	Min.	Тур.	Max.	Unit	Note	Inspection
Output Optical Power	Pf	0.3		0.8	mW	CW, lop=lth+20mA,	100%inspection
Threshold Current	lth		7		mA	Tc=25±3 ℃	100%inspection
Peak Wavelength	λр	1290	1310	1330	nm	CW, lop=lth+20mA,	
Side mode suppression ratio	SMSR	30	40		dB	CW	
Operating Voltage	Vop			1.7	V	CW, lop=lth+20mA,	100%inspection
Monitor Current	Im	0.05		1.0	mA	VRD=1V	100%inspection
Monitor Dark Current	ld			0.1	μA	VRD=1V	
Rise/Fall Time	Tr/ Tf			50	ps	20%~80%	
Optical Isolation	ISO	30			dB		
Tracking Error	TE	-1.5		1.5	dB	APC, -20℃/+25℃, +25℃/+85℃	

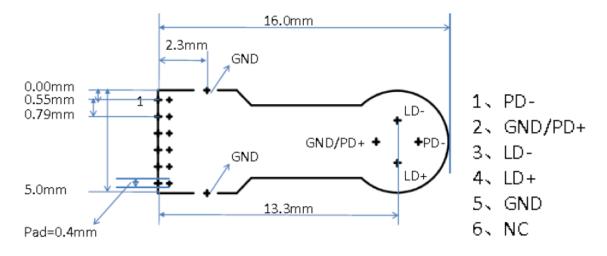
(Unless specified else, the specifications below are defined at TC=25 $^\circ\!\!\mathbb{C}$)

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





FPC(FRONT)



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