CWDM（1270nm~1610nm）DFB Coaxial laser diode module

Features

- Advanced Multiple Quantum Well (MQW) laser
- Distributed Feedback (DFB) Laser Design
- Low Threshold Current
- Built-in InGaAsP monitor PD
- Cost-effective Uncooled Laser Technology
- 5.6-mm TO-style Package with SMF coupling

Application

- CATV Return-Patch
- Analog Transmission
- Light Source
- Sensor
- Optical telecommunication
- OTDR

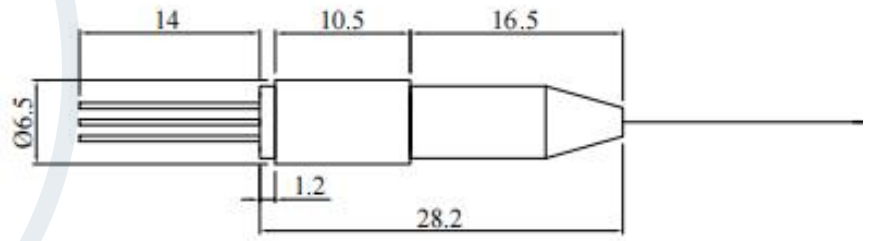
Absolute Maximum Ratings (Tc=25℃.unless otherwise specified)

Parameter	Symbol	Min.	Max.	Unit	Test Condition
Laser Forward Current	I_{FP}	-	-	120	mA
Reverse Voltage	V_R		2	V	CW
Operating Temperature	T_{OP}	-20	+70	℃	
Storage Temperature	Tstg	-40	+100	℃	-
Soldering Temperature/Time	-	260/10		℃/S	-

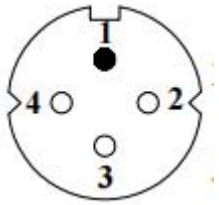
Optical & electrical characteristics (Tc=25℃)

Parameter	Symbol	Min	Typ.	Max.	Unit	Test Conditions
Optical Output Power	Po	1.0	-	5.0	mW	CW,DFB,25℃
Threshold Current	Ith		10	15	mA	DFB,25℃
Operating Current	Iop	-	20	50	mA	CW,Po=2mW,DFB,25℃
		-	45	75		CW,Po=2mW,DFB,70℃
Forward Voltage	VF	-	1.1	1.6	V	CW,Po=2mW,25℃
Center Wavelength	λc	1307	1310	1313	nm	CW, DFB,25℃
		1547	1550	1553		
		λc-3	λc	λc+3		* O+S+C+L
Spectral Width (-20 dB)	Δλ	-	0.5	-	nm	CW, 25℃
Side Mode Suppression Ratio	SMSR	30	40	-	dB	25℃
Monitor Dark Current	ID	0.08	0.5	-	mA	CW, Ith+20mA
Optical Isolation	ISO	30	-	-	dB	25℃
Mondulation Bandwidth	BW	1.25	-	-	GHz	-3dB,Po=2mW
Rise Time/ Fall Time	TR/TF	-	0.3	0.7	ns	CW, Ith+20mA

Dimensions(mm)



Pin Assignment



Type A		Type C	
1	LD + / Case	1	Case
2	LD −	2	LD −
3	PD −	3	PD +
4	PD +	4	LD + / PD −

Order Information

GTA1015

“O Wavelength” 1270nm ~ 1410nm.
“ S+C+L Wavelength” 1430nm ~ 1610nm.

Please let us know your request details before order.

Customize for you