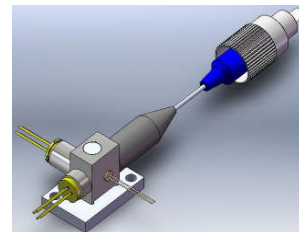




FIBER PIGTAILED TRIPLEXER TRI-L2P1

The triplexer, TRI-L2P1-85.13.IN incorporates lasers with wavelengths of 850nm, and 1310nm, as well as a InGaAs PIN PD into a small main-body footprint of 12.50 X 19.05 X 13.70 mm, and coupled with a 62.5/125μm multi-mode fiber pigtail for easy board mounting.



Features:

- Pout ~ 0.5 mW
- Fiber pigtailed
- Multi-λ combinations

Advantages:

- Board mountable
- Economical
- Ease of System Integration

Applications:

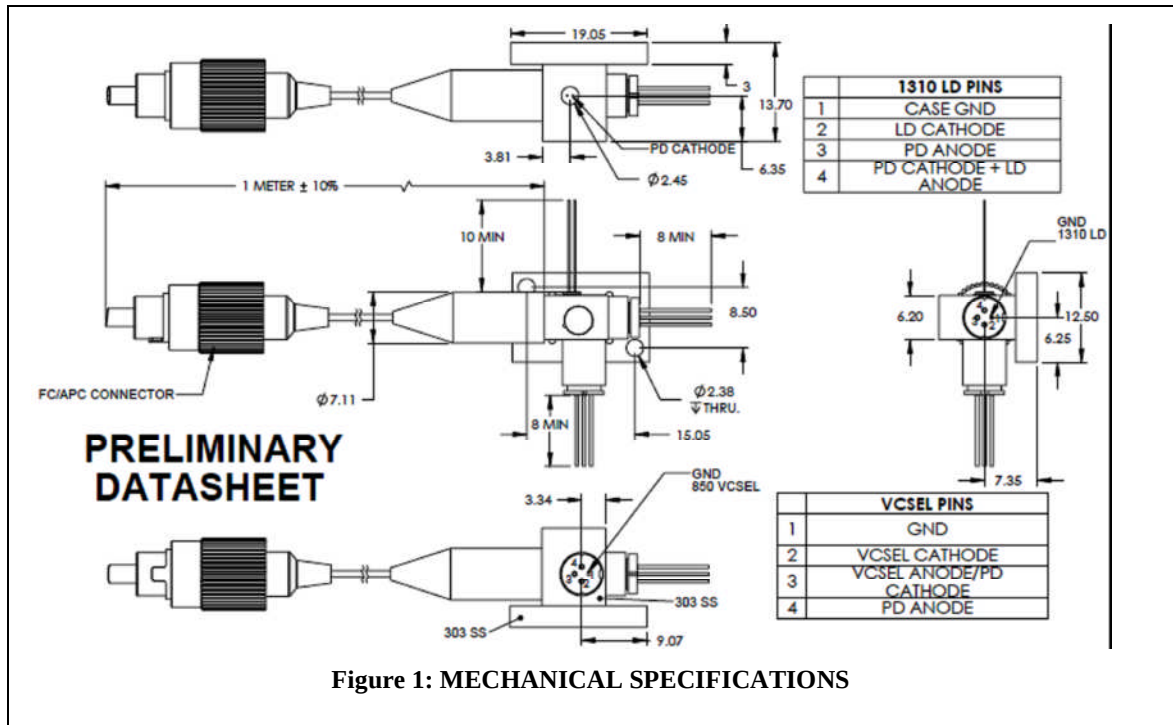
- Testing

Operational Specifications @ 22C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
850nm VCSEL LD						
Optical Power Output	P_O		0.5		mW	Into 62.5μm
Threshold Current	I_{TH}		2	3.5	mA	
Operating Current	I_{OP}		15		mA	
Forwarding Voltage	V_F	1.6	1.8	2.1	V	$I_{OP} = 15\text{mA}$
Peak Wavelength	λ	830	850	860	nm	$I_{OP} = 15\text{mA}$
Spectral Width	$\Delta\lambda$			0.85	nm	$I_{OP} = 15\text{mA}$
Temperature Coefficient			0.06		nm/°C	
Rise and Fall Time	t_r/t_f		0.10	0.15	ns	
Monitor PD Output Current	I_m		30		uA	$P_o = 0.5 \text{ mW}$
Monitor Capacitance	C		6	10	pF	$V_R = 3\text{V} @ 1\text{MHz}$
1310nm LD						
Optical Power Output	P_O		0.5		mW	Into 62.5μm
Threshold Current	I_{TH}		10		mA	
Operating Current	I_{OP}		30		mA	
Forwarding Voltage	V_F		1.2	1.6	V	$I_{OP} = I_{th} + 20\text{mA}$
Peak Wavelength	λ	1290	1310	1330	nm	$I_{OP} = I_{th} + 20\text{mA}$
Spectral Width	$\Delta\lambda$		2	4	nm	$I_{OP} = I_{th} + 20\text{mA}$
Rise and Fall Time	t_r/t_f		200	240	ps	
Monitor PD Output Current	I_m	0.1	0.5		mA	
Monitor PD Dark Current	I_d			100	nA	
Monitor Capacitance	C		10	20	pF	$F = 1\text{MHz}$
InGaAs PD						
Active Area	D		300		μm	
Sensitive Wavelength		1000		1600	nm	
Responsivity	R	0.3			A/W	$V_R = 5\text{V}, \lambda = 1300\text{nm}$
Cutoff Frequency	F_c		300		MHz	$V_R = 5\text{V}, \lambda = 1300\text{nm}$
Dark Current	I_d		0.2	3	nA	
Monitor Capacitance	C		7	10	pF	



FIBER PIGTAILED TRIPLEXER TRI-L2P1



Part Number System

TRI-L2P1-85.13.IN- XX

- **TRI** indicates Triplexer
- **L2P1** indicates two lasers, and 1 PIN PD
- **85.13.IN** indicates the 850nm, 1310nm Lasers, and InGaAs PD
- **XX** is a customer specific reference and includes power required