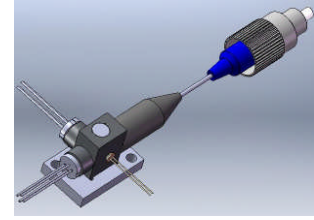




## FIBER PIGTAILED TRIPLEXER TRI-L2P1

The triplexer, TRI-L2P1-15.13.IN incorporates lasers with wavelengths of 1550nm, 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 9/125 $\mu$ m single-mode fiber pigtail for easy board mounting.



### Features:

- Pout ~ 0.5 mW
- Fiber pigtailed
- Multi- $\lambda$  combinations

### Advantages:

- Board mountable
- Economical
- Ease of System Integration

### Applications:

- Testing

### Operational Specifications @ 22C

| Parameter                 | Symbol          | Min. | Typ. | Max. | Unit    | Test Condition           |
|---------------------------|-----------------|------|------|------|---------|--------------------------|
| <b>1550nm LD</b>          |                 |      |      |      |         |                          |
| Optical Power Output      | $P_O$           |      | 0.5  |      | mW      | Into 9 $\mu$ m           |
| Threshold Current         | $I_{TH}$        |      | 10   |      | mA      |                          |
| Operating Current         | $I_{OP}$        |      | 30   |      | mA      |                          |
| Forwarding Voltage        | $V_F$           |      | 1.2  | 1.6  | V       | CW, IFL=Ith+20mA         |
| Peak Wavelength           | $\lambda$       | 1520 | 1550 | 1580 | nm      | CW, IFL=Ith+20mA         |
| Spectral Width            | $\Delta\lambda$ |      | 2    | 4    | nm      | CW, IFL=Ith+20mA         |
| 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=1MHz                   |
| <b>1310nm LD</b>          |                 |      |      |      |         |                          |
| Optical Power Output      | $P_O$           |      | 0.5  |      | mW      | Into 9 $\mu$ m           |
| Threshold Current         | $I_{TH}$        |      | 10   |      | mA      |                          |
| Operating Current         | $I_{OP}$        |      | 30   |      | mA      |                          |
| Forwarding Voltage        | $V_F$           |      | 1.2  | 1.6  | V       | CW, IFL=Ith+20mA         |
| Peak Wavelength           | $\lambda$       | 1290 | 1310 | 1330 | nm      | CW, IFL=Ith+20mA         |
| Spectral Width            | $\Delta\lambda$ |      | 2    | 4    | nm      | CW, IFL=Ith+20mA         |
| 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=1MHz                   |
| <b>InGaAs PD</b>          |                 |      |      |      |         |                          |
| Active Area               | $D$             |      | 300  |      | $\mu$ m |                          |
| Sensitive Wavelength      |                 | 1000 |      | 1600 | nm      |                          |
| Responsivity              | $R$             | 0.3  |      |      | A/W     | $V_R=5V, \lambda=1300nm$ |
| Cutoff Frequency          | $F_c$           |      | 300  |      | MHz     | $V_R=5V, \lambda=1300nm$ |
| Dark Current              | $I_d$           |      | 0.2  | 3    | nA      |                          |
| Monitor Capacitance       | $C$             |      | 7    | 10   | pF      |                          |



## FIBER PIGTAILED TRIPLEXER TRI-L2P1

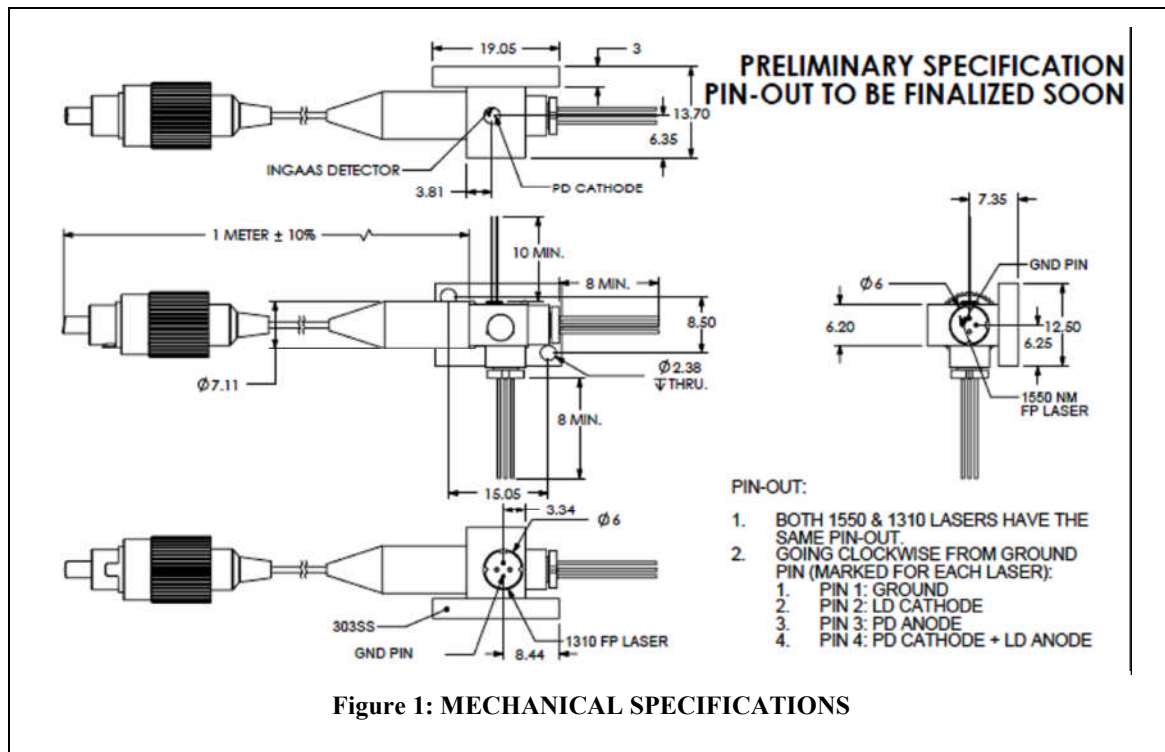


Figure 1: MECHANICAL SPECIFICATIONS

### Part Number System

#### TRI-L2P1-15.13.IN- XX

- **TRI** indicates Triplexer
- **L2P1** indicates two lasers, and 1 PIN PD
- **15.13.IN** indicates the 1550nm, 1310nm Lasers, and InGaAs PD
- **XX** is a customer specific reference and includes power required