



Features

- Laser diode with Multi-quantum-well structure
- Un-cooled operation at -40 to +85 °C
- Built-in InGaAs monitor photodiode
- Hermetically sealed active component
- Complies with Telcordia Technologies GR-468-CORE
- FC/ST/SC Receptacle package with 2-hole flange
- Fiber pigtailed with optional FC/ST/SC/MU connector
- Design for fiber-optics networks
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25 °C)

| Parameter | Symbol | Rating | Unit |
|--------------------------|------------------|---------------------|------|
| Fiber Output Power L/M/H | P _f | 0.6(L)/1 (M)/2.5(H) | mW |
| LD Reverse Voltage | V _{RLD} | 2 | V |
| PD Reverse Voltage | V _{RPD} | 10 | V |
| PD Forward Current | I _{FPD} | 2 | mA |
| Operating Temperature | T _{opr} | -40 ~ 85 | |
| Storage Temperature | T _{stg} | -40 ~ 85 | |

(All optical data refer to a coupled 9/125 μ m SM fiber)

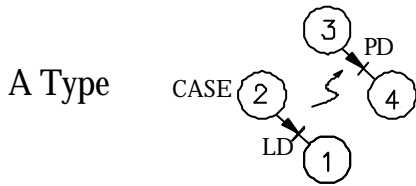
Optical and Electrical Characteristics (Tc=25 °C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Notes |
|-----------------------|---------------------------------|-----------------|-------------|---------------|------|--|
| Threshold Current | I _{th} | - | 10 | 15 | mA | CW |
| Fiber Output Power | L M H P _f | 0.2 0.5 1 | - - - | 0.5 1 2 | mW | CW, I _{th} +25mA, kink free |
| Peak Wavelength | | 1490 | 1510 | 1530 | nm | CW, P _f = P _f (Min) |
| Spectrum Width (RMS) | Receptacle Pigtail | - - | 2 - | 5 3 | nm | CW, P _f = P _f (Min) |
| Forward Voltage | V _F | - | 1.2 | 1.5 | V | CW, P _f = P _f (Min) |
| Rise Time / Fall Time | T _r / T _f | - | - | 0.3 | ns | I _{bias} =I _{th} , 10%~90% |
| Tracking Error | P _f / P _f | -1.5 | - | 1.5 | dB | APC, -40 ~ 85 |
| PD Monitor Current | I _m | 100 | - | - | μ A | CW, P _f = P _f (Min), V _{RPD} = 2V |
| PD Dark Current | I _{dark} | - | - | 0.1 | μ A | V _{RPD} = 5V |
| PD Capacitance | C _t | - | 6 | 15 | pF | V _{RPD} = 5V, f = 1MHz |

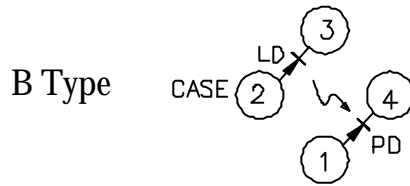
Note:

1. Pin assignment can be customized.
2. Specifications subject to change without notice.

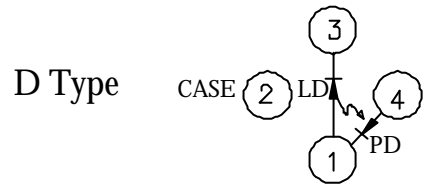
Pin Assignment



- Pin 1 : Laser Cathode
- Pin 2 : Laser Anode and Case Gnd
- Pin 3 : Monitor Diode Anode
- Pin 4 : Monitor Diode Cathode



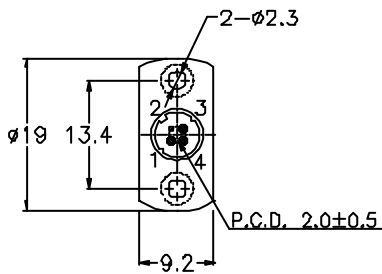
- Pin 1 : Monitor Diode Anode
- Pin 2 : Laser Anode and Case Gnd
- Pin 3 : Laser Cathode
- Pin 4 : Monitor Diode Cathode



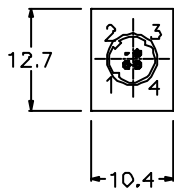
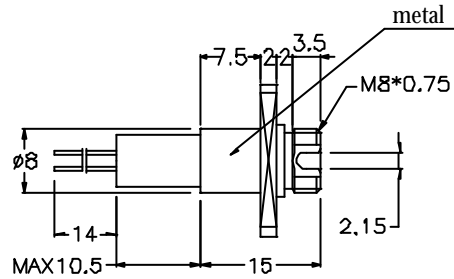
- Pin 1 : Laser Anode and Monitor Diode Cathode
- Pin 2 : Case Gnd
- Pin 3 : Laser Cathode
- Pin 4 : Monitor Diode Anode

Packaging Dimensions (Units in mm)

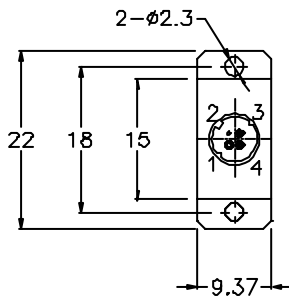
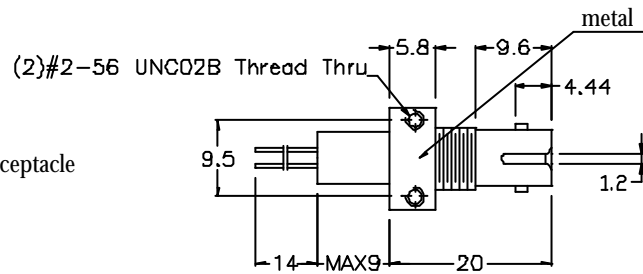
Part Number: C-151-001-RX-SXXXX-XX



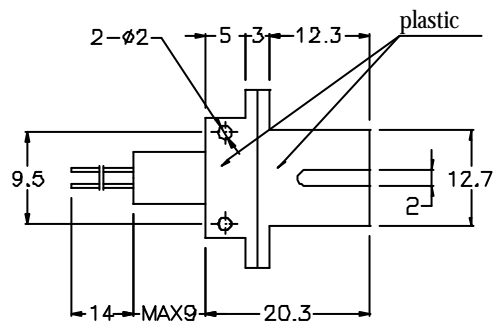
FC Receptacle



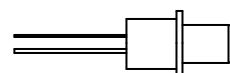
ST Receptacle



SC Receptacle



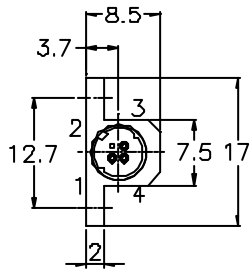
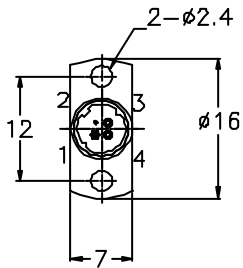
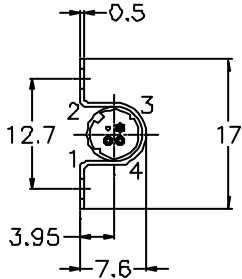
Customer Specified



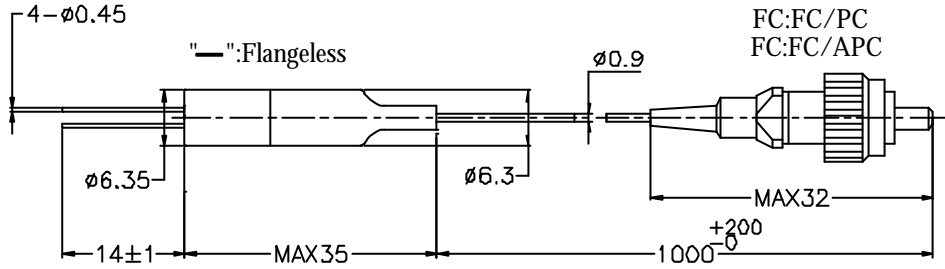
Packaging Dimensions (Units in mm)

Part Number: C-151-001-PX-SXXXX/XXX-X-XX

P.C.D. 2.0 ± 0.5



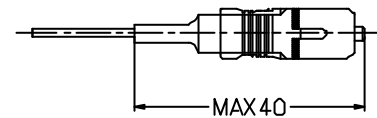
Flange Type



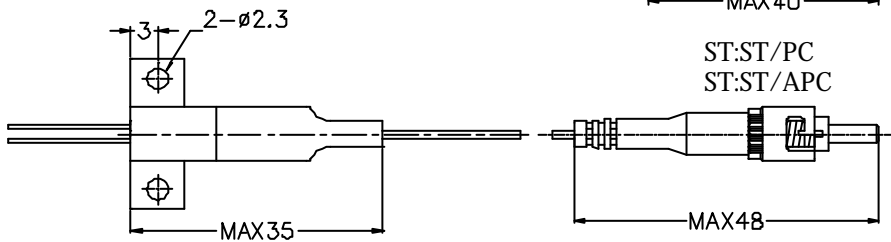
Connector Type

FC:FC/PC
FC:FC/APC

SC:SC/PC
SC:SC/APC

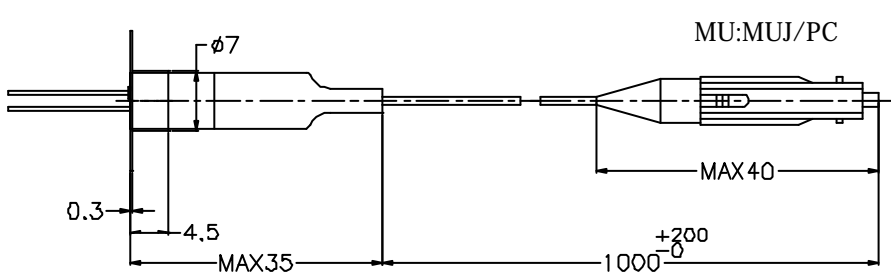


"□": Horizontal (Omega Housing)



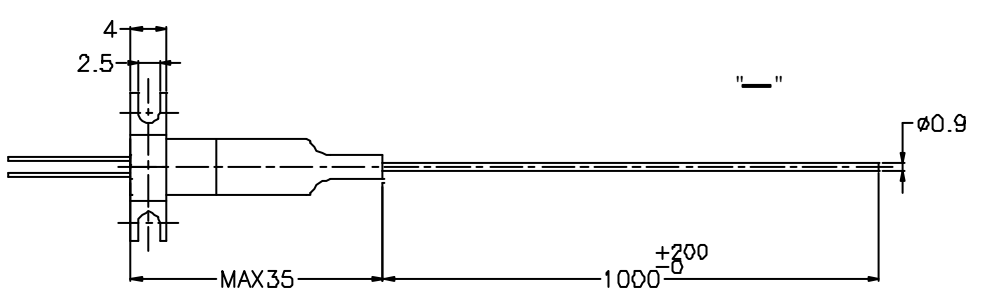
ST:ST/PC
ST:ST/APC

"V": Vertical



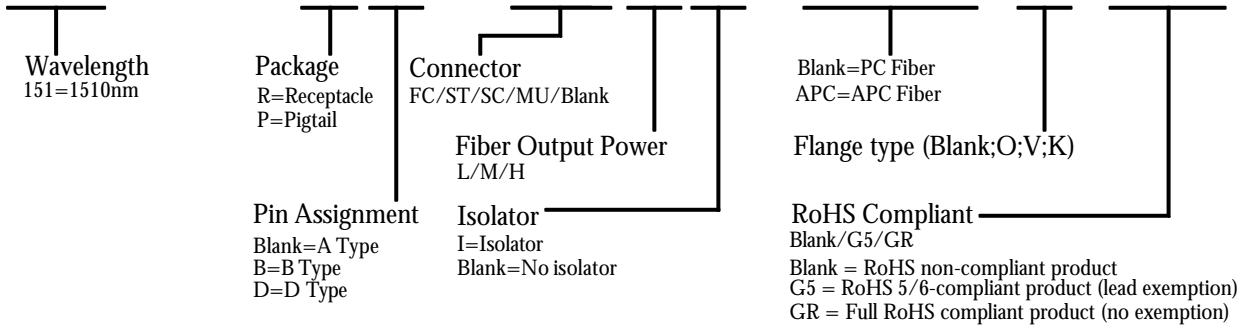
MU:MUJ/PC

"K": Horizontal (KX Housing)



Ordering Information

C-151-001-XX-SXXXX/XXX-X-XX



Warnings

Handling Precautions: This device is susceptible to damage as a result of electrostatic discharge (ESD). A static free environment is highly recommended. Follow guidelines according to proper ESD procedures.

Laser Safety: Radiation emitted by laser devices can be dangerous to human eyes. Avoid eye exposure to direct or indirect radiation.

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