

Features

- InGaAs/InP PIN Photodiode with transimpedance amplifier
- High sensitivity with AGC*
- Differential ended output
- Single +3.3V operation
- -40~85°C operating temperature

Packaging

- FC/ST/SC receptacle packaged
- SM/MM fiber pigtailed with optional FC/ST/SC connector

Application

- 1.25Gbps SDH/SONET/ATM receivers
- RoHS Compliant available

| Absolute Maximum Ratings (Tc=25°C) | | | | | | | | |
|------------------------------------|------------------|----------|------|--|--|--|--|--|
| Parameter | Symbol | Value | Unit | | | | | |
| Supply Voltage | V _{CC} | 4.5 | V | | | | | |
| Operating Temperature | T _{opr} | -40 ~ 85 | °C | | | | | |
| Storage Temperature | T _{stg} | -40 ~ 85 | °C | | | | | |

| DC Electrical Characteristics (Tc=25°C) | | | | | | | |
|---|-----------------|------|------|------|------|--|--|
| Parameter | Symbol | Min. | Тур. | Max. | Unit | | |
| Power Supply | V _{CC} | 3.0 | 3.3 | 3.6 | V | | |
| Differential Ouptput Voltage | V _d | 185 | 250 | 415 | mV | | |
| Supply Current (no load) | I _{cc} | - | 26 | 50 | mA | | |

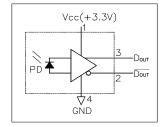
(Operating at V_{CC} =3.3V , Tc=25°C , λ =1310nm , 9/125 μ m SM fiber & 50/125 μ m MM fiber)

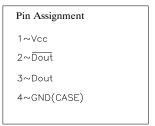
| AC/Optical and Electrical Characteristics (Tc=25°C) | | | | | | | |
|---|------------------|------|------|------|------|---|--|
| Parameter | Symbol | Min | Тур | Max | Unit | Test Conditions | |
| Detection Range | - | 1100 | 1310 | 1650 | nm | - | |
| Gain@10Mbps Differential | G | 1.92 | 2.5 | 3.4 | V/mW | Measure differentially with 30uAp-p signal | |
| Bandwidth (to -3dB point) | BW | 700 | 920 | 1100 | MHz | - | |
| Saturation Power | P _{sat} | -3 | 0 | - | dBm | BER<10 ⁻¹² @1.25Gbps, PRBS 2 ⁷ -1, Er=10dB | |
| Sensitivity | Sens | - | -26 | -23 | dBm | BER<10 ⁻¹² @1.25Gbps, PRBS 2 ⁷ -1, Er=10dB | |
| Output Resistance | Rout | 48 | 50 | 62 | ohm | - | |

Note: 1. Pin assignment can be customized.

2. Specifications subject to change without notice.

Pin Assignment

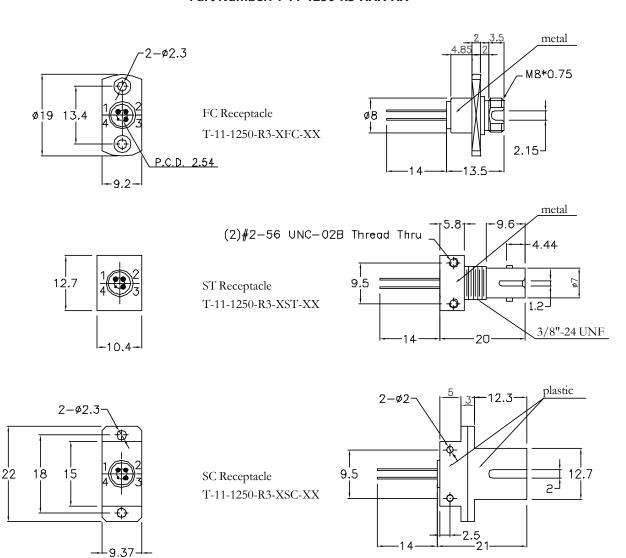




Packaging Dimension

Units in mm.

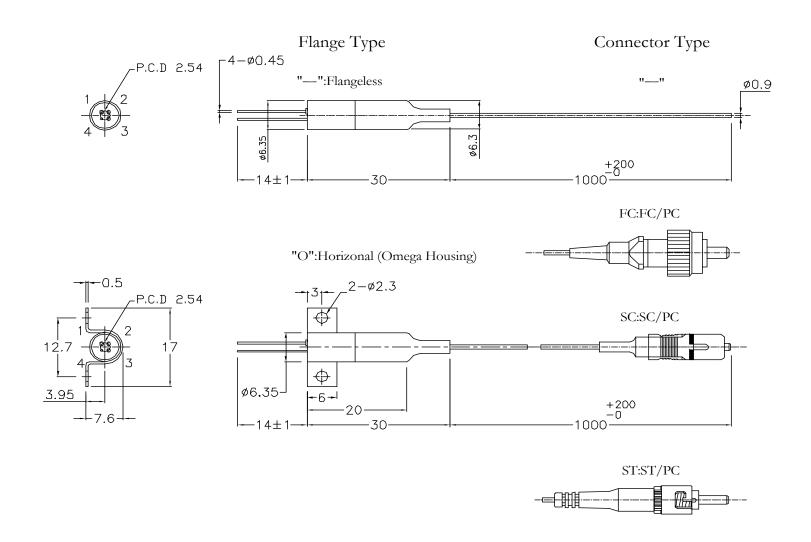
Part Number: T-11-1250-R3-XXX-XX



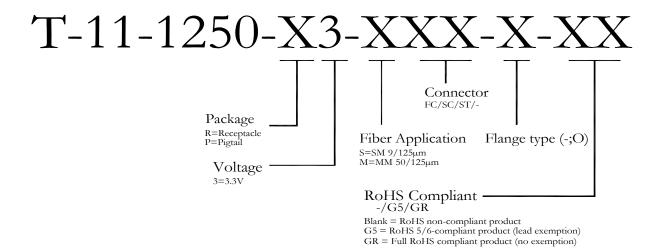
Packaging Dimension

Units in mm

Part Number: T-11-1250-P3-XXX-X-XX



Ordering Information



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.

Legal Notice

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