

T-11-1250-X3-XXX-X-XX



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.	Typ.	Max.	Unit
Power Supply	V _{CC}	3.0	3.3	3.6	V
Differential Output 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 , 9/125μm SM fiber & 50/125μm MM fiber)

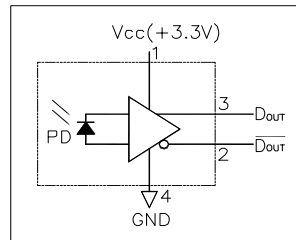
AC/Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Typ	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	R _{out}	48	50	62	ohm	-

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

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Pin Assignment



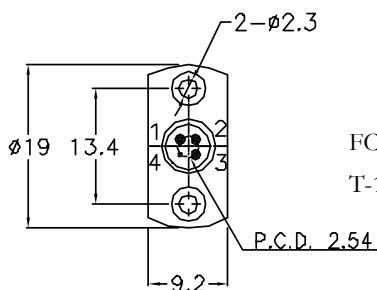
Pin Assignment

- 1~Vcc
- 2~ $\overline{\text{Dout}}$
- 3~Dout
- 4~GND(CASE)

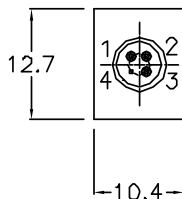
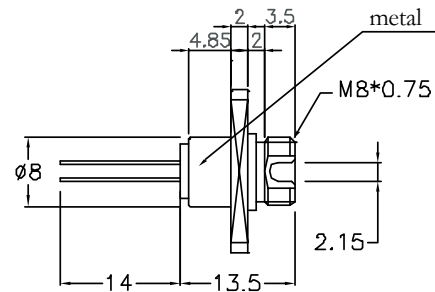
Packaging Dimension

Units in mm.

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

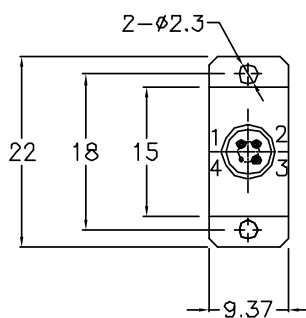
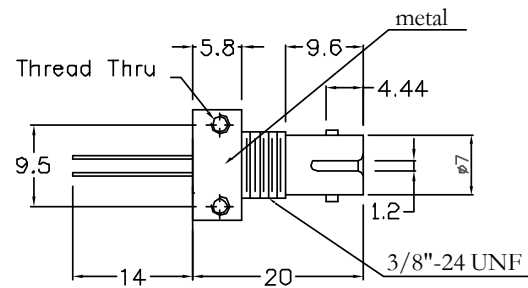


FC Receptacle
T-11-1250-R3-XFC-XX

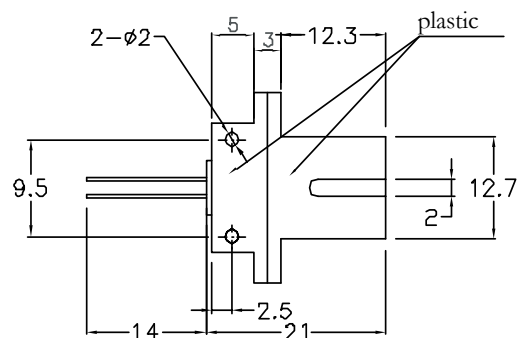


ST Receptacle
T-11-1250-R3-XST-XX

(2)#2-56 UNC-02B Thread Thru



SC Receptacle
T-11-1250-R3-XSC-XX

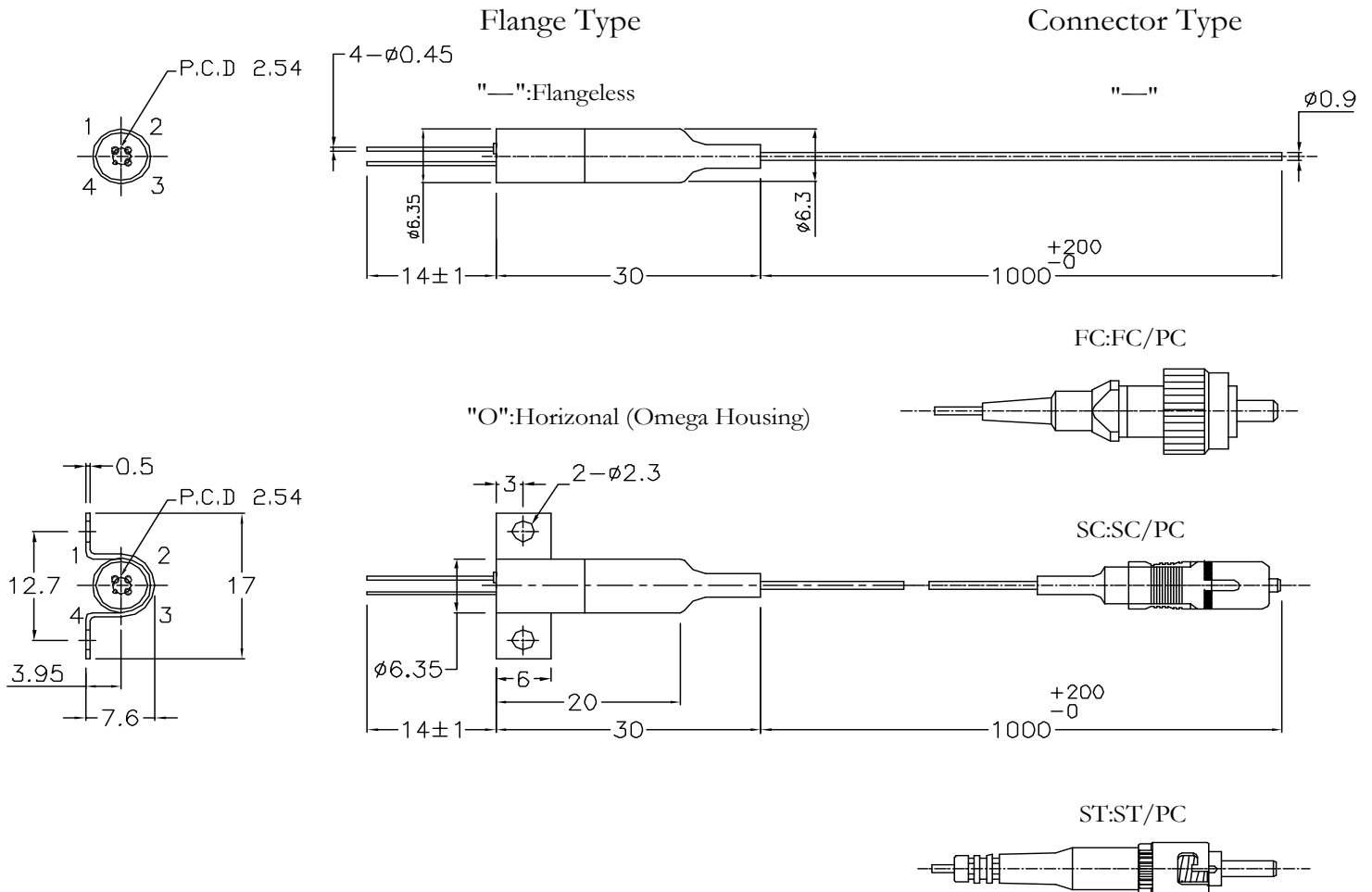


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Packaging Dimension

Units in mm.

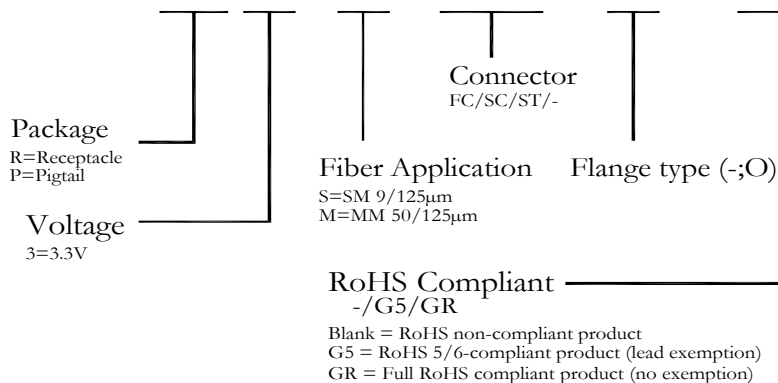
Part Number: T-11-1250-P3-XXX-X-XX



T-11-1250-X3-XXX-X-XX

Ordering Information

T-11-1250-X3-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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