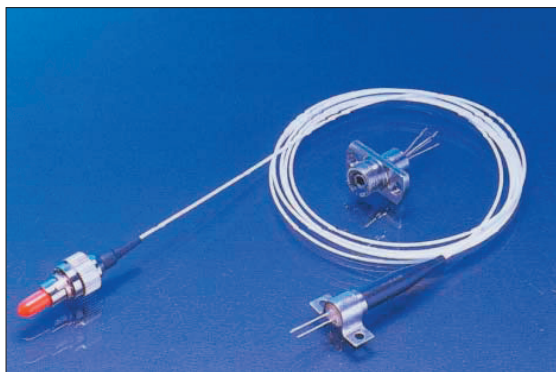


## T-11-1250-X-XXX-X-XX


**Features**

- InGaAs/InP PIN Photodiode with transimpedance amplifier
- High sensitivity with AGC\*
- Differential ended output
- Single+5V operation
- -40~85°C operating temperature
- FC/ST/SC Receptacle package
- SM/MM fiber pigtailed with optional FC/ST/SC/LC connector
- 1.25Gbps SDH/SONET/ATM receivers
- RoHS Compliant available

**Absolute Maximum Ratings (Tc=25°C)**

Parameter	Symbol	Value	Unit
Supply Voltage	V <sub>CC</sub>	6	V
Operating Temperature	T <sub>opr</sub>	-40 ~ 85	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ 85	°C

**DC Electrical Characteristics (Tc=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit
Power Supply	V <sub>CC</sub>	4.5	5	5.5	V
Differential Output Voltage	V <sub>d</sub>	185	250	415	mV
Supply Current (no load)	I <sub>cc</sub>	-	26	50	mA

(Operating at V<sub>CC</sub>=5V, Tc=25°C, λ=1310nm, 9/125μm SM & 50/125μm MM fiber)

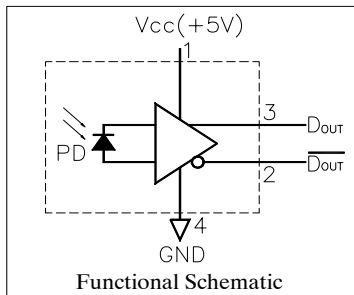
**AC/Optical and Electrical Characteristics (Tc=25°C)**

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 <sub>sat</sub>	-3	0	-	dBm	BER<10 <sup>-12</sup> @1.25Gbps, PRBS2 <sup>7</sup> -1 Er=10dB
Sensitivity	Sens.	-	-26	-23	dBm	BER<10 <sup>-12</sup> @1.25Gbps, PRBS2 <sup>7</sup> -1 Er=10dB
Output Resistance	R <sub>out</sub>	40	50	62	ohm	

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

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

Pin Assignment



Pin Assignment

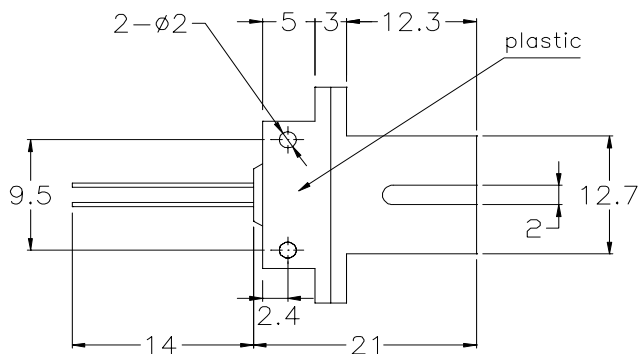
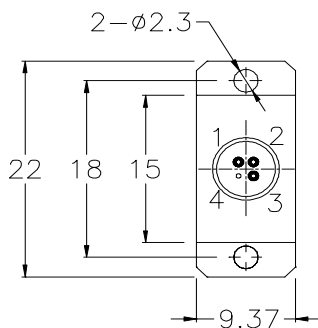
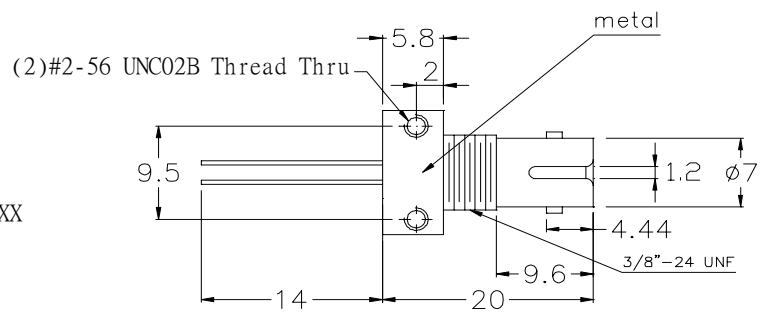
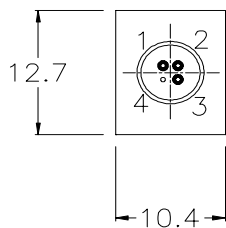
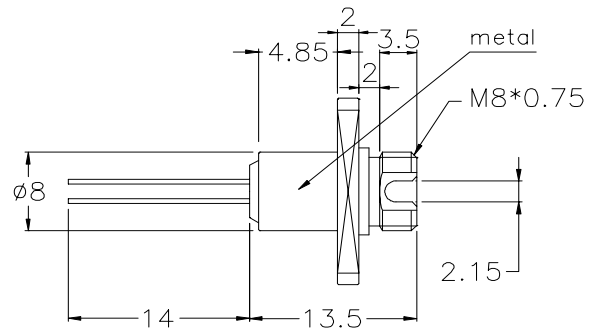
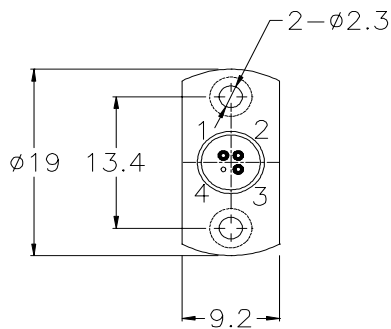
- 1~Vcc
- 2~ $\overline{Dout}$
- 3~Dout
- 4~GND(CASE)

Packaging Dimension

Units in mm.

PIN-TIA Receiver Module-receptacle

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



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

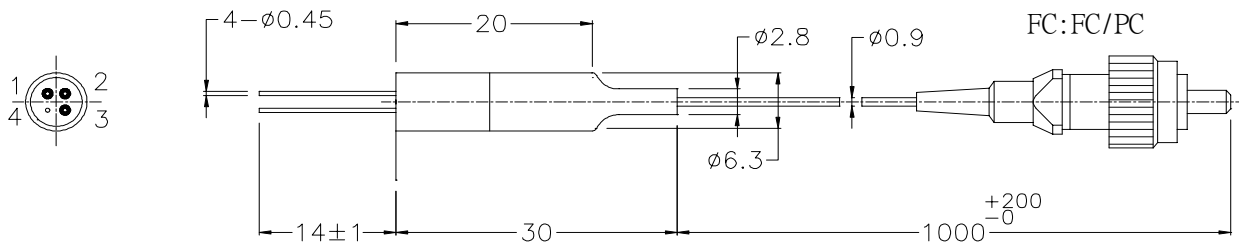
Packaging Dimension

Units in mm.

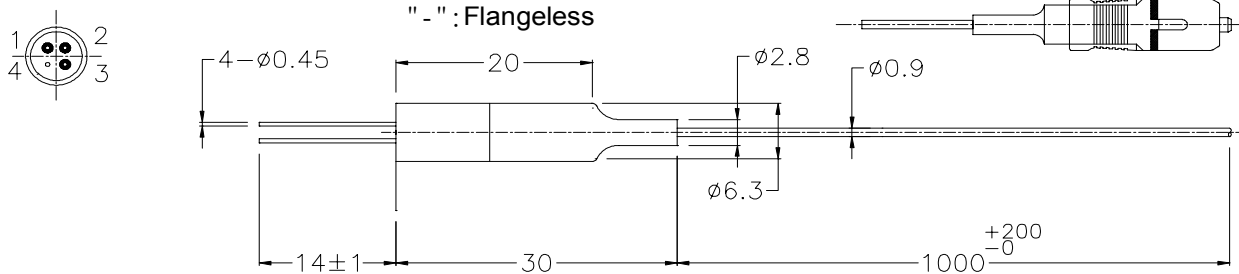
Flange Type

"-": Flangeless

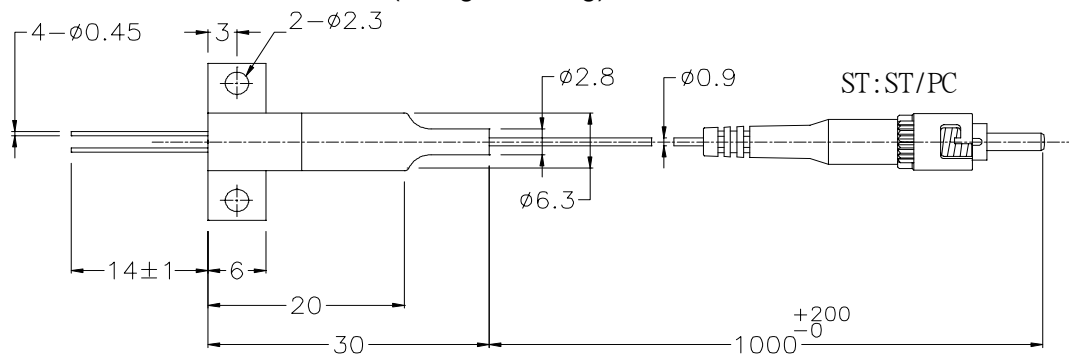
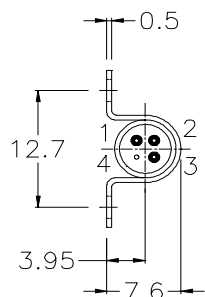
Connector Type



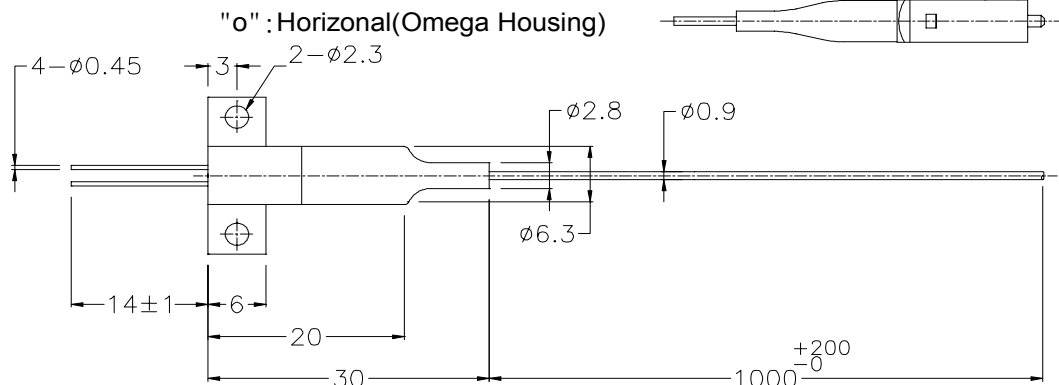
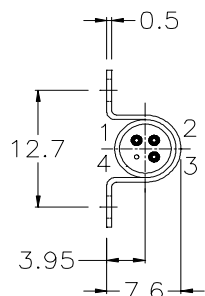
SC:SC/PC



"o": Horizontal(Omega Housing)



LC:LC/PC



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

## Ordering Information

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

Package

P=Pigtail

R=Receptacle

Connector

FC/ST/SC/LC/-

Flange

"O" : O Type flange

" - " : No flange

Fiber Application

S= 9/125 $\mu$ mM= 50/125 $\mu$ m

RoHS Compliant

-/G5/GR

Blank = RoHS non-compliant product

G5 = RoHS 5/6-compliant product (lead exemption)

GR = Full RoHS compliant product (no exemption)

## 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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