

T-11-622-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

Packaging

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

Application

- 622Mbps SDH/SONET/ATM receivers
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Value	Unit
Supply Voltage	V _{CC}	6.5	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}	4.5	5	5.5	V
Differential Output offset Voltage	V _d	-	260	450	mV
Supply Current (no load)	I _{cc}	-	21	30	mA

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

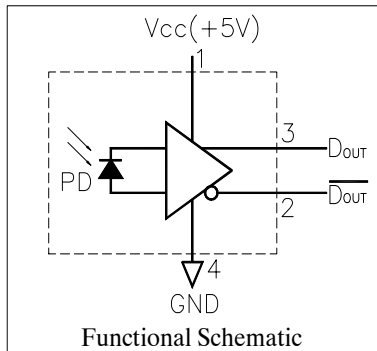
AC/Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Detection Range	λ	1100	1310	1650	nm	-
Gain@10Mbps Differential	G	6	7	-	V/mW	Measure differentially, AC coupled, RL=50Ω
Bandwidth	BW	404	470	-	MHz	-
Saturation Power	P _{sat}	-7	-6	-	dBm	BER<10 ⁻¹⁰ @622Mbps, PRBS2 ²³ -1 Er=10dB
Sensitivity	Sens.	-	-33	-30	dBm	BER<10 ⁻¹⁰ @622Mbps, PRBS2 ²³ -1 Er=10dB
Output Resistance	R _{out}	48	50	52	ohm	-

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

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Pin Assignment



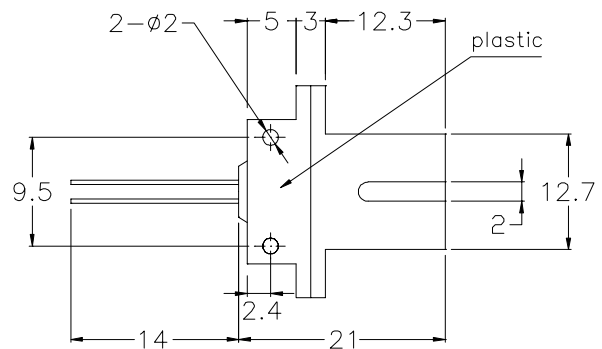
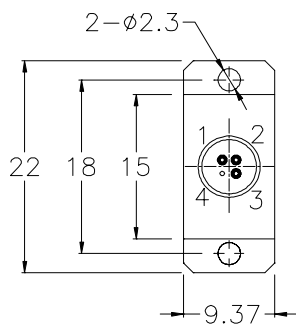
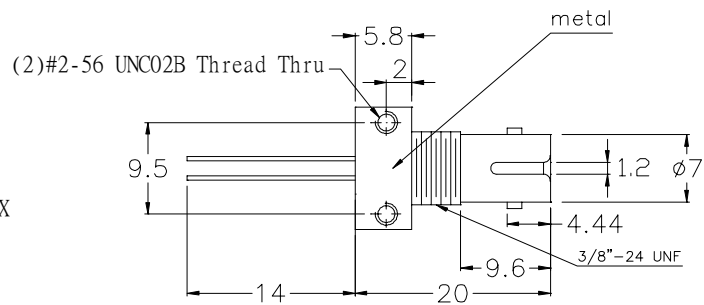
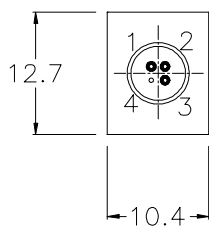
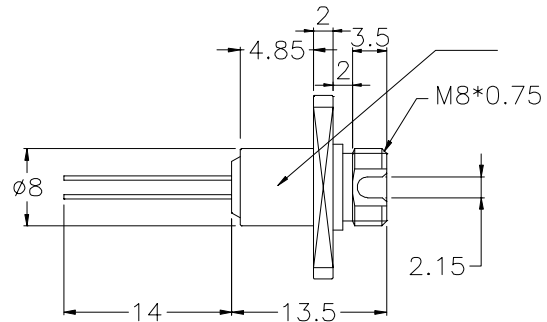
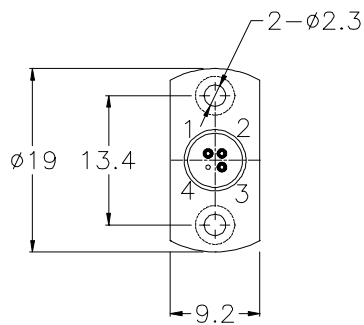
Pin Assignment

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

Packaging Dimension

Units in mm.

Part Number : T-11-622-R-XXX-XX



T-11-622-X-XXX-X-XX

Packaging Dimension

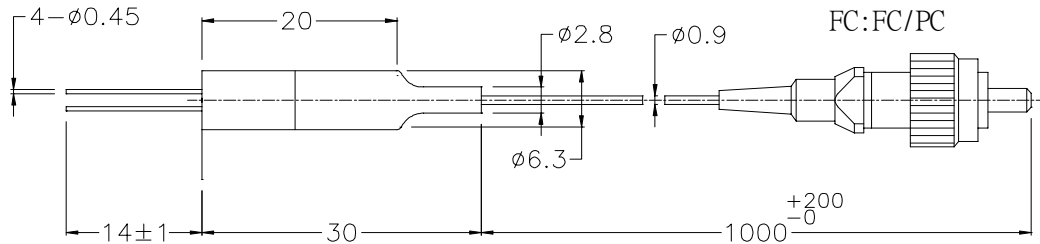
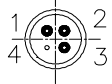
Units in mm.

Part Number : T-11-622-P-XXX-X-XX

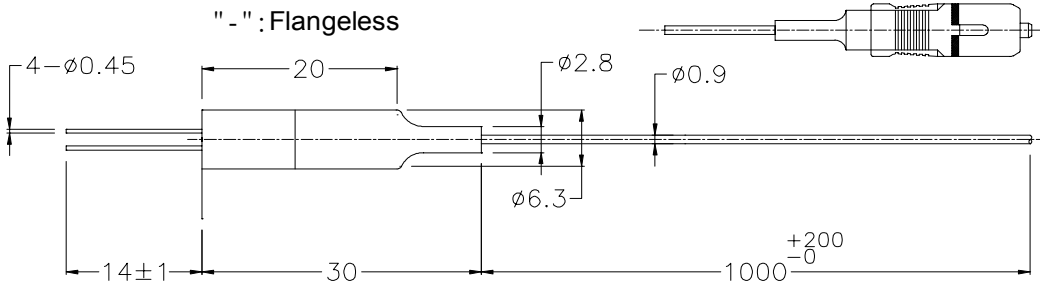
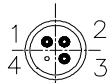
Flange Type

"-" : Flangeless

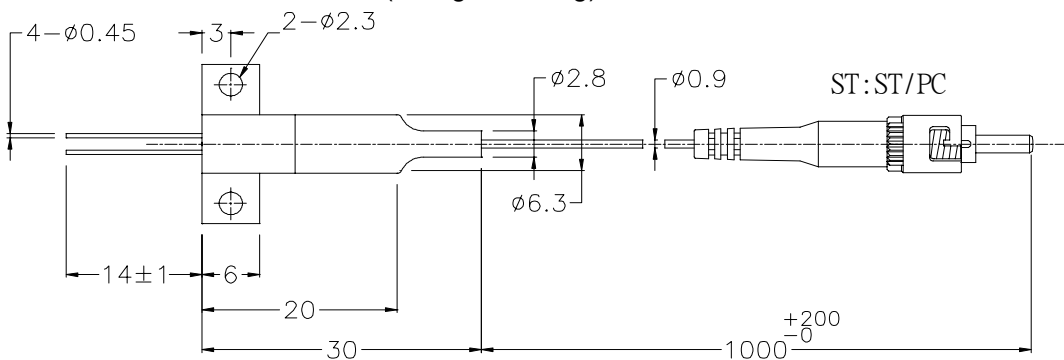
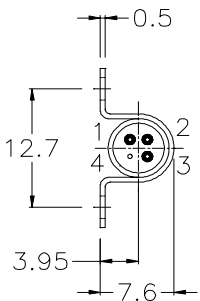
Connector Type



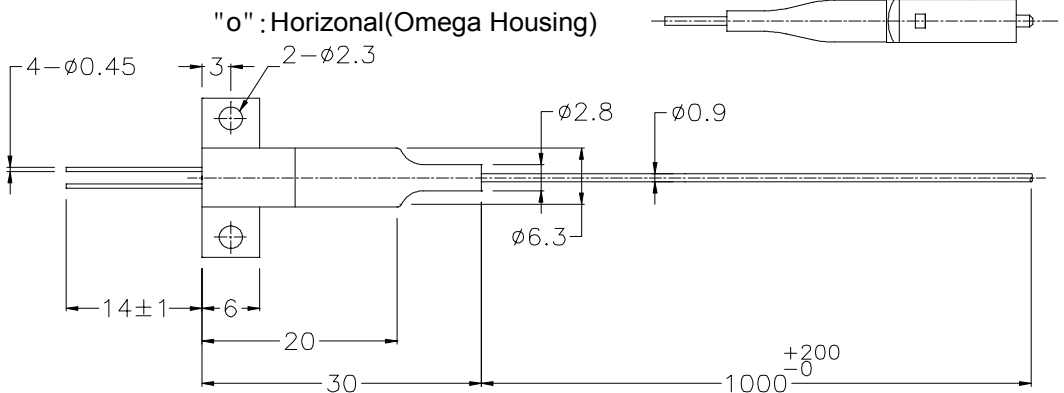
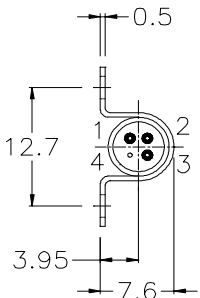
SC:SC/PC



"o" : Horizontal(Omega Housing)



LC:LC/PC



T-11-622-X-XXX-X-XX

Ordering Information

T-11-622-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 μ m
M= 50/125 μ 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.

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