

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 package
- SM/MM fiber pigtailed with optional FC/ST/SC connector **Application**
- 622Mbps 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		260	450	mV		
Supply Current (no load)	I _{cc}	-	21	30	mA		

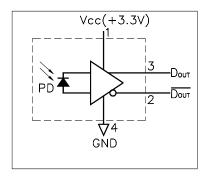
(Operating at V_{cc} =3.3V,Tc=25°C, λ =1310nm, 9/125 μ m SM fiber & 50/125 μ m MM fiber)

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	6	7	-	V/mW	Measure differentially, AC coupled, RL=50 Ω		
Bandwidth (to -3dB point)	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	Rout	48	50	52	ohm	-		

Note: 1.Pin assignment can be customized.

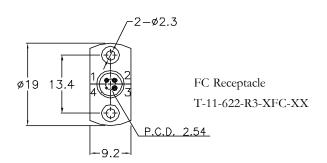
2. Specifications subject to change without notice.

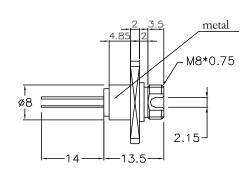
Pin Assignment

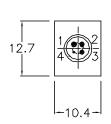


Pin assignment 1~Vcc 2~\overline{Dout} 3~Dout 4~GND(CASE)

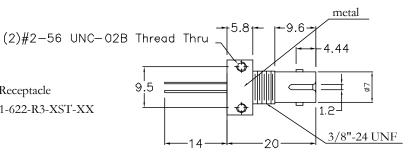
Packaging Dimension

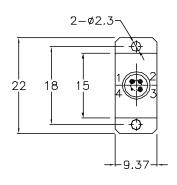




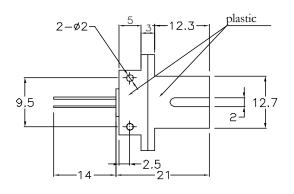


ST Receptacle T-11-622-R3-XST-XX





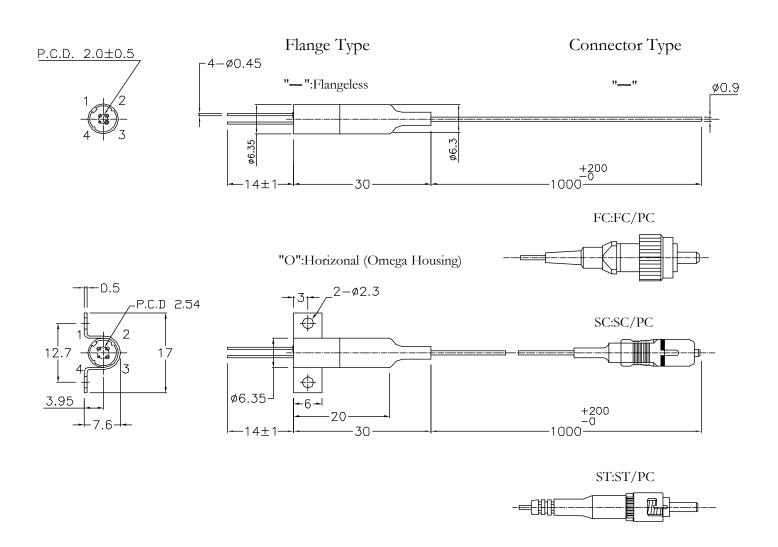
SC Receptacle T-11-622-R3-XSC-XX



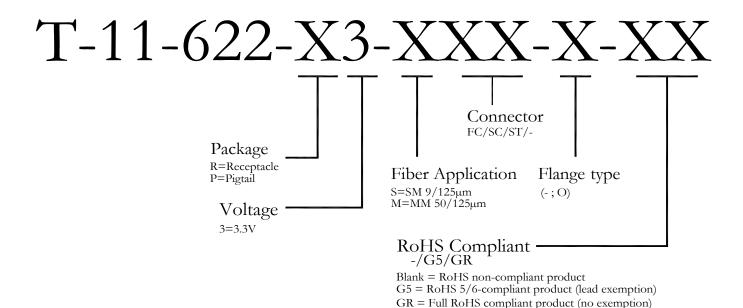
Packaging Dimension

Units in mm.

T-11-622-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.

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