

P/N: T-11-1250-X3-XXX-X-XX PIN-TIA Receiver Modules-Receptacle & Pigtailed(3.3V)



Features

- InGaAs/InP PIN Photodiode with trans-impedance 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

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

Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Rating	Unit
Supply Voltage	V _{cc}	4.5	V
Operating Temperature	Topr	-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	3.3	3.6	V
Differential Output Voltage	Vd	185	250	415	mV
Supply Current (no load)	Icc	-	26	50	mA

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Notes		
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, E _r =10dB		
Sensitivity	Sens	-	-26	-23	dBm	BER<10 ⁻¹² @1.25Gbps, PRBS 2 ⁷ -1, E _r =10dB		
Output Resistance	R _{out}	48	50	62	Ω	-		

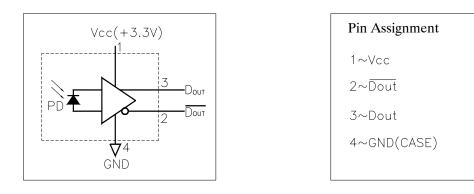
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Note: 1. Pin assignment can be customized.

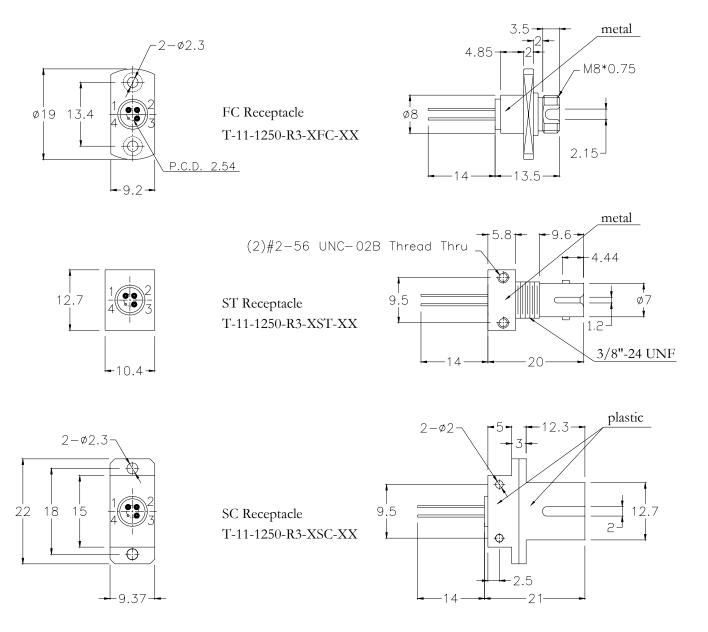
2. Specifications subject to change without notice.



Pinout Assignment



Mechanic Dimension (Units in mm) Part Number: T-11-1250-R3-XXX-XX

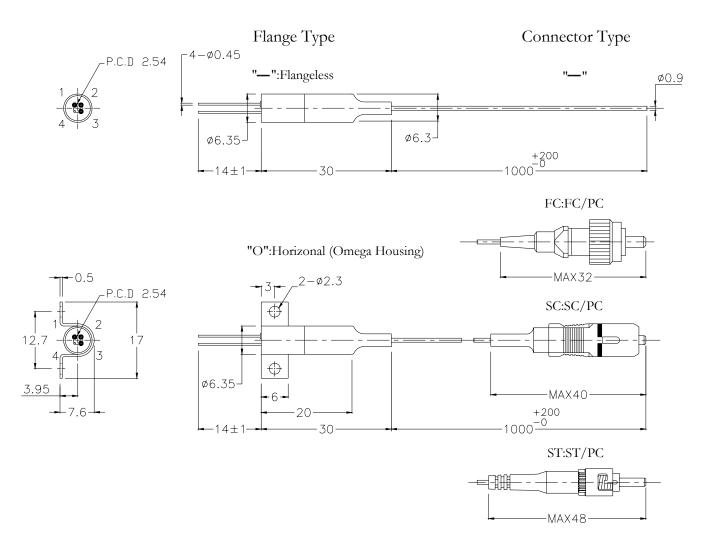




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Mechanic Dimension (Units in mm)

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

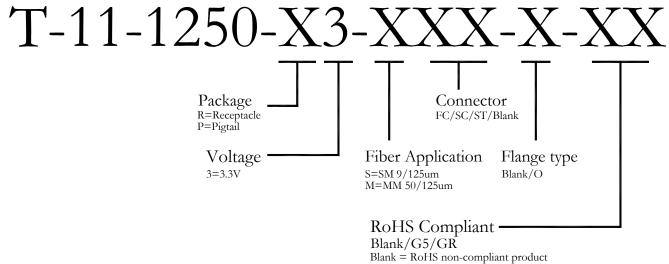




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PIN-TIA Receiver Modules-Receptacle & Pigtailed(3.3V)

Ordering Information



Blank = RoHS non-compliant product G5 = RoHS 5/6-compliant product (lead exemption) GR = Full RoHS compliant product (no exemption)

DS-6003 Rev 0.0 2010-02-24



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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