P/N: T-11-2500-X3-XXX/XXX-XX 2.5Gbps PIN-TIA Receiver Modules (3.3V)





Features

- InGaAs/InP PIN Photodiode with transimpedance amplifer
- High Sensitivity with AGC*
- Differential ended output
- Single Supply Voltage 3.3V
- -40~85°C operating temperature

Packaging

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

Application

- 2.5Gbps SDH/SONET/ATM receivers
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol	Rating	Unit
Supply Voltage	V _{cc}	3.8	V
Operating Temperature	Topr	-40 ~ 85	°C
Storage Temperature	T _{stg}	-40 ~ 85	°C

DC Electrical Characteristics (Tc=25℃)

Parameter	Symbol	Min.	Тур.	Max.	Unit	
Power Supply	V _{cc}	3	3.3	3.6	V	
Differential Output Voltage	V _d	-	0.6	-	V	
Supply Current (no load)	Icc	16	25	35	mA	

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

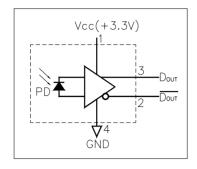
Parameter	Symbol	Min.	Тур.	Max.	Unit	Notes	
Detection Range		1100	1310	1650	nm	-	
Gain@10Mbps differential	G	4	6	9	V/mW	Measure differentially AC coupled, RL=50 Ω	
Bandwidth	BW	1.7	2	-	GHz	-	
Saturation Power	P _{sat}	-3	0	-	dBm	BER< 10^{-10} @2.5Gbps, PRBS 2^{23} -1, E _r =10dB	
Sensitivity	Sens	-	-21	-18	dBm	BER< 10^{-10} @2.5Gbps, PRBS 2^{23} -1, E _r =10dB	
Output Resistance	R _{out}	-	50	-	Ω	-	

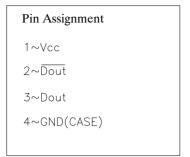
Note: 1. Pin assignment can be customized.

2. Specifications subject to change without notice.



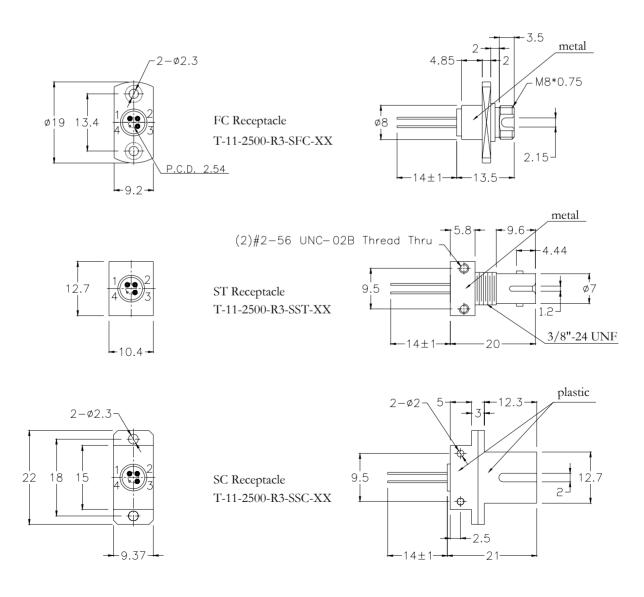
Pinout Assignment





Mechanic Dimension (Units in mm)

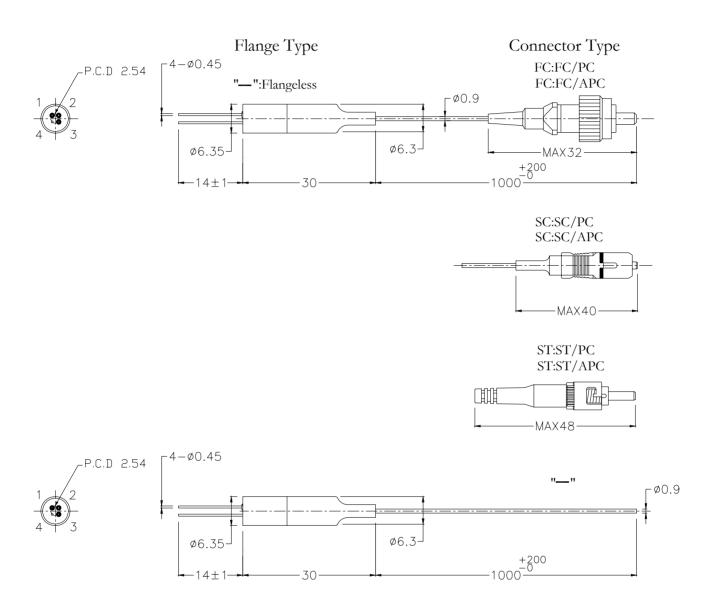
Part Number: T-11-2500-R3-SXX-XX





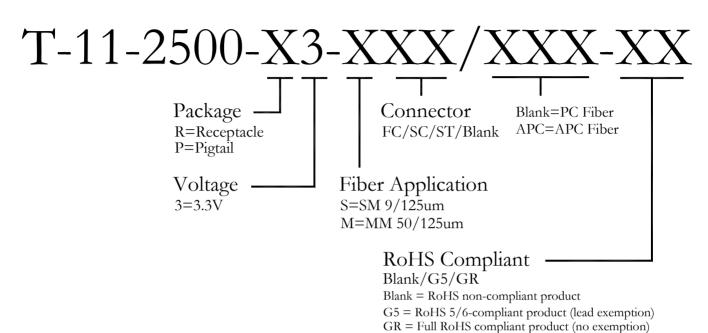
Mechanic Dimension (Units in mm)

Part Number: T-11-2500-P3-XXX/XXX-XX





Ordering Information



P/N: T-11-2500-X3-XXX/XXX-XX 2.5Gbps PIN-TIA Receiver Modules (3.3V)



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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