

T-11-1250-R/P-x xxx



Features

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

Absolute Maximum Rating (Tc=25°C)					
Parameter	Symbol	Value	Unit		
Supply Voltage	V _{cc}	6	V		
Operating Temperature	T _{opr}	-40 to +85	°C		
Storage Temperature	T _{sta}	-40 to +85	°C		

DC Electrical Characteristics(Tc=2					
Parameter	Symbol	Min	Typical	Max	Unit
Power Supply	V _{cc}	4.5	5.0	5.5	V
Differential Output Voltage	Vd	-0.1	-	0.1	V
Supply Current (no load)	I _{cc}	-	34	47	mA

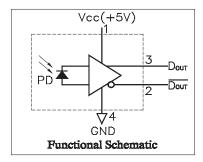
Operating at : V_{CC} = 5V, Tc=25°C, λ =1310nm, 9/125 μ m SM fiber)

AC/Optical and Electrical Characteristics(Tc=25°C)						
Parameter	Symbol	Min	Typical	Max	Unit	Test Condition
Detection Range		1100	1310	1650	nm	-
Differential Small-signal transimpedance	R _{tr}	-	8.3	10	kΩ	Measure differentially AC coupled R_L =50 Ω
Bandwidth (to -3dB point)	BW	1000	1200	-	MHz	
Saturation Power	P _{sat}	-3	0	-	dBm	λ=1310nm
Sensitivity	Sens	-	-24	-22	dBm	BER=10 ⁻¹⁰ @1.24416Gbps, PRBS7
Output Resistance	R _{out}	40	50	62	ohm	

Connector Options			
Model	Package	Fiber	Connector
T-11-1250-R-SFC T-11-1250-R-SST T-11-1250-R-SSC	Receptacle	-	FC ST SC
T-11-1250-R-S(M)FC T-11-1250-P-S(M)ST T-11-1250-P-S(M)SC T-11-1250-P-S(M)	Pigtailed	SM (MM)	FC ST SC -

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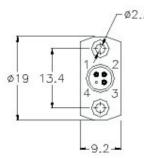
Pin Assignment



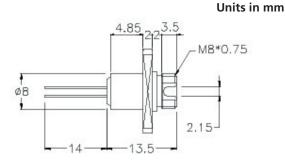
Pin assignment 1~Vcc 2~Dout 3~Dout 4~GND(CASE)

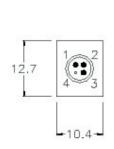
Outline Drawing

PIN-TIA Receiver Modules-Receptacle

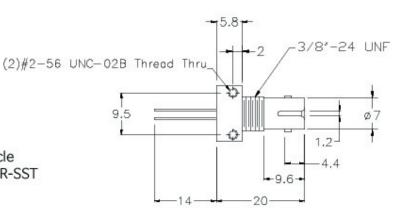


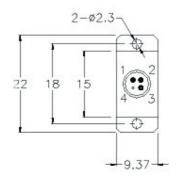
FC Receptacle T-11-1250-R-SFC



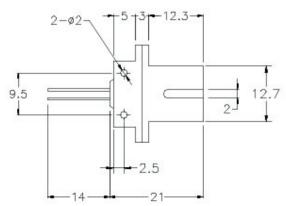


ST Receptacle T-11-1250-R-SST





SC Receptacle T-11-1250-R-SSC



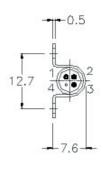


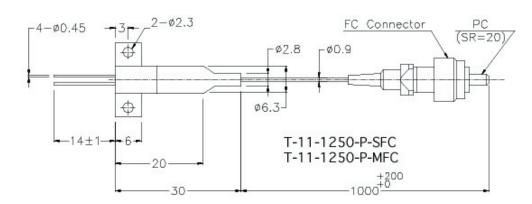
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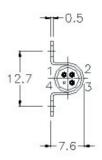
Outline Drawing

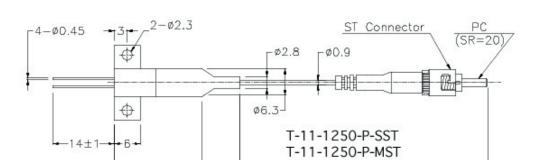
PIN-TIA Receiver Modules-Pigtailed

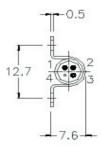
Units in mm

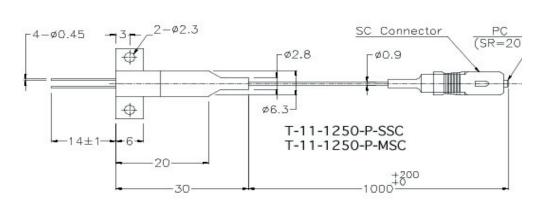


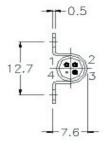


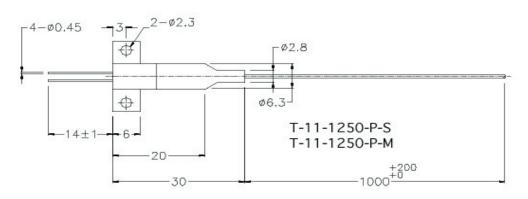














PIN-TIA Receiver Modules-Receptacle & Pigtailed(5V)

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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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