

T-11-2500A-X-SXX



Features

- InGaAs/ InP PIN Photodiode with transimpedance amplifier
- High sensitivity with Auto Gain Control (AGC)
- Differential ended output
- Single +5 V operation
- -40 to +85°C operating temperature

Packaging

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

Application

- 2.5 Gbps SDH/ SONET/ ATM receivers
- Singlemode or Multimode

Absolute Maximum Ratings ($T_c = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Supply Voltage	V_{cc}	6	V
Operating Temperature	T_{opr}	-40 to +85	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +85	$^\circ\text{C}$

DC Electrical Characteristics ($T_c = 25^\circ\text{C}$)

Parameter	Symbol	Min	Typ	Max	Unit
Power Supply	V_{cc}	4.5	5	5.5	V
Differential Output Voltage	V_d	-	0.6	-	V
Supply Current (no load)	I_{cc}	-	4.7	57	mA

AC Optical and Electrical Characteristics ($T_c = 25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ	Max	Unit	Test Condition
Detection Range		1100	1310	1650	nm	-
Gain @10Mbps Differential	G	-	26	-	V/mW	$\lambda = 1310\text{nm}$
Bandwidth	BW	-	1600	-	MHz	
Saturation Power	P_{sat}	-3	0	-	dBm	$\lambda = 1310\text{nm}$
Sensitivity	Sens	-	-21	-20	dBm	BER = 10^{-10} @2.5 Gbps
Output Resistance	R_{out}	48	60	72	ohm	

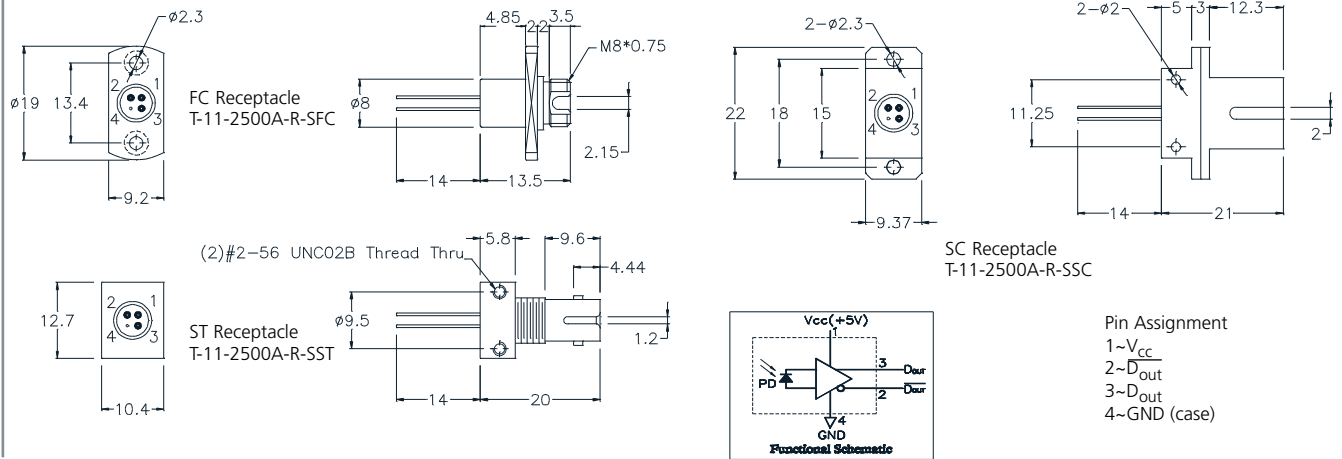
Operating at $V_{cc}= 5\text{V}$, $T_c= 25^\circ\text{C}$, $\lambda= 1310\text{ nm}$, 9/125 μm SM fiber

Connector Options

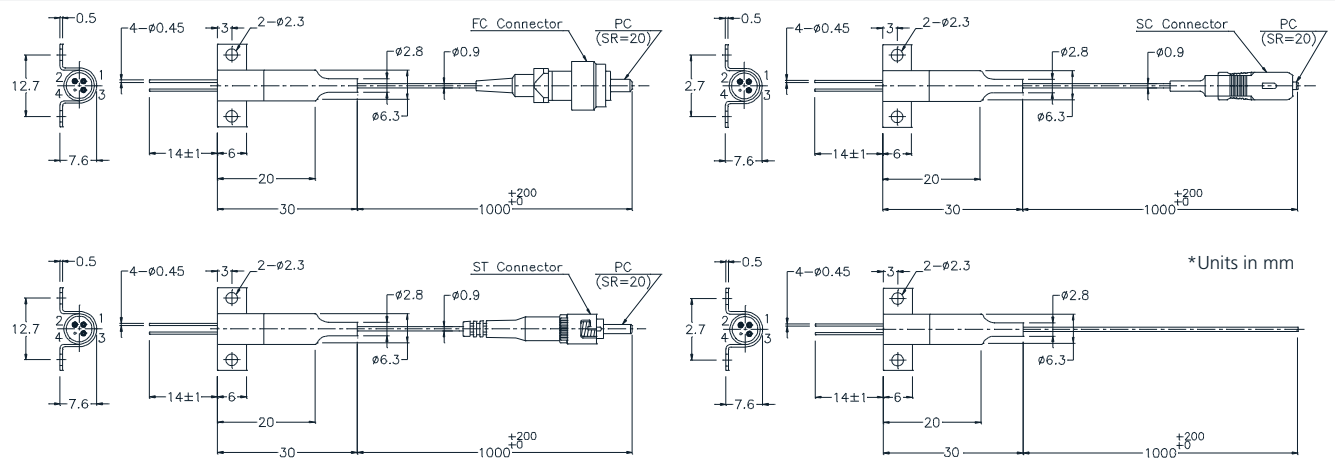
Model	Package	Fiber	Connector
T-11-2500A-R-SFC	Receptacle	-	FC
T-11-2500A-R-SST			ST
T-11-2500A-R-SSC			SC
T-11-2500A-P-S(M)FC	Pigtailed	SM,MM	FC
T-11-2500A-P-S(M)ST			ST
T-11-2500A-P-S(M)SC			SC
T-11-2500A-P-S(M)			-

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PIN-TIA Receiver Modules-receptacle



PIN-TIA Receiver Modules-pigtailed



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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