

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°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 = 25°C)						
Parameter	Symbol	Min	Тур	Max	Unit	
Power Supply	V_{cc}	4.5	5	5.5	V	
Differential Output Voltage	V_d	-	0.6	-	V	
Supply Current (no load)	l _{cc}	-	4.7	57	mA	

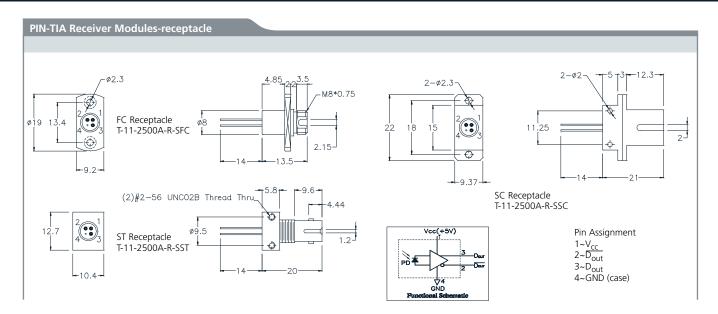
AC Optical and Electrical Characteristics (Tc = 25°C)						
Parameter	Symbol	Min.	Тур	Max	Unit	Test Condition
Detection Range		1100	1310	1650	nm	-
Gain @10Mbps Differential	G	-	26	-	V/mW	$\lambda = 1310$ nm
Bandwidth	BW	-	1600	-	MHz	
Saturation Power	P _{sat}	-3	0	-	dBm	λ = 1310nm
Sensitivity	Sens	-	-21	-20	dBm	BER = 10 ⁻¹⁰ @2.5 Gbps
Output Resistance	R _{out}	48	60	72	ohm	

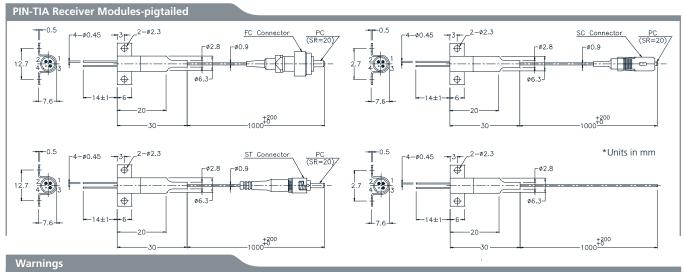
Operating at V_{cc} = 5V, T_c = 25°C, λ = 1310 nm, 9/125 μ m SM fiber

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		SM,MM	FC
T-11-2500A-P-S(M)ST	D:-+-!		ST
T-11-2500A-P-S(M)SC	Pigtailed		SC
T-11-2500A-P-S(M)			-



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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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