

T-11-2500-D-Sxx



Features

- InGaAs/InP PIN Photodiode with transimpedance amplifier
- High sensitivity with AGC
- Differential ended output
- Single +5V operation
- -40 to 85°C operating temperature
- SC/LC/MU ROSA Package
- 2.5 Gbps SONET/SDH reciever application
- 2.5 Gbps ATM receiver application

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

DC Electrical Characteristics(Tc=25°C)						
Parameter	Symbol	Min	Typical	Max	Unit	
Power Supply	V _{cc}	4.5	5.0	5.5	V	
Differential Output Voltage	Vd	0.22	0.38	0.57	V	
Supply Current (no load)	I _{cc}	-	34	63	mA	

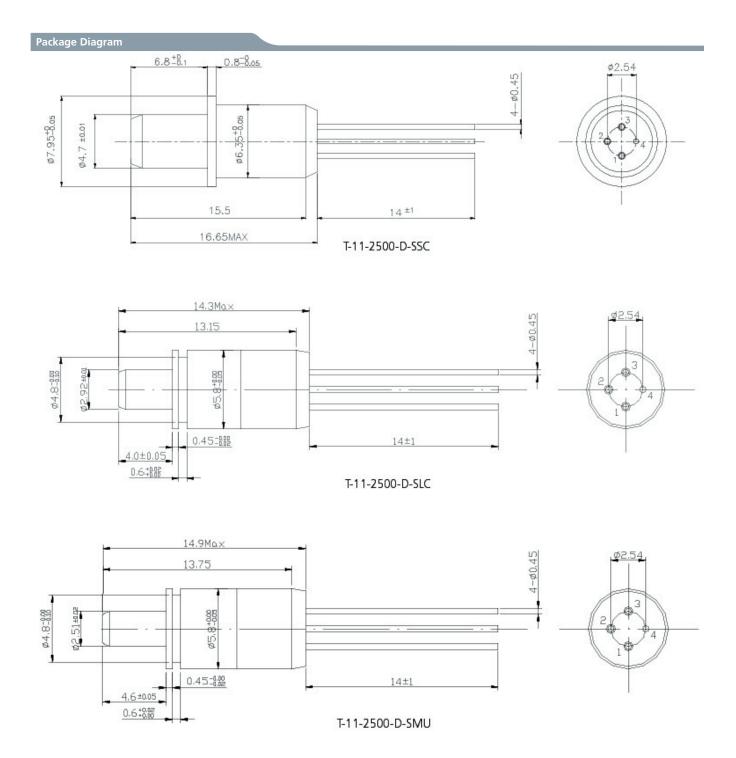
(Operating at V_{cc} =5V, T_c =25°C, λ =1310nm, 9/125 μ m SM fiber)

AC/Optical and Electrical Characteristics(Tc=25°C) Parameter Symbol Min Typical Max Unit **Test Condition Detection Range** 1100 1310 1650 nm Measure differentially AC coupled Gain @ 10 Mbps Differential G 1.5 2.3 3.2 V/mW $RL = 50 \Omega$ Bandwidth (to -3dB point) BW 1500 2000 MHz -3 0 BER= 10⁻¹⁰ @ 2.5 Gbps, PRBS 23 Saturation Power P_{sat} dBm Sensitivity Sens -21 -18 dBm BER= 10⁻¹⁰ @ 2.5 Gbps, PRBS 23 40 50 52 Ω Output Resistance R_{out} Optical Return Loss ORL 27 dB

Connector Options			
Parameter	Symbol	Min	Typical
T-11-2500-D-SSC	ROSA	-	SC
T-11-2500-D-SLC	ROSA	-	LC
T-11-2500-D-SMU	ROSA	-	MU



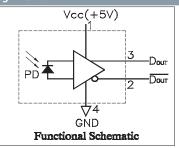
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2.5 Gbps PIN-TIA Reciever Module-ROSA (5V)

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Pin assignment



Pin assignment

- 1∼Vcc
- 2~Dout
- 3~Dout
- 4~GND(CASE)

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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