



Features

- InGaAs/InP PIN Photodiode with transimpedance amplifier
- High Sensitivity
- Single +3.3V operation
- -40~85 °C operating temperature
- For Single-mode and Multi-mode Application
- High Speed
- 8 Pin Package with ST Port
- ATM receiver / transceiver
- Fast ethernet receiver / transceiver
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25 °C)

Parameter	Symbol	Rating	Unit
Supply Voltage	V _{CC}	6	V
Operating Temperature	T _{opr}	-40 ~ 85	
Storage Temperature	T _{stg}	-40 ~ 85	

DC Electrical Characteristics (Tc=25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Power Supply	V _{CC}	3	3.3	3.6	V
Differential Output Voltage @ max I/P Current	V _d	-	-	1.2	V
Supply Current (no load)	I _{CC}	11	21	36	mA

(Operating at V_{CC}=3.3V , Tc=25 °C, λ =1.3 μ m, 9/125 μ m SM & 50/125 μ m MM fiber)

Optical and Electrical Characteristics (Tc=25 °C)

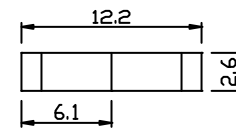
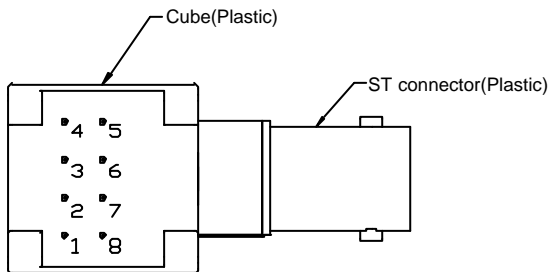
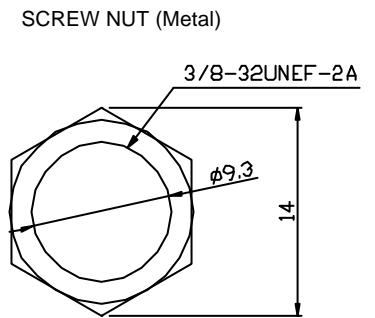
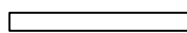
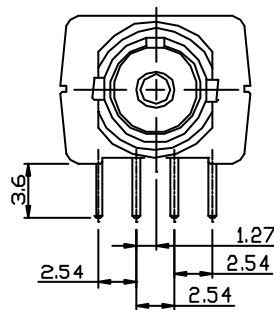
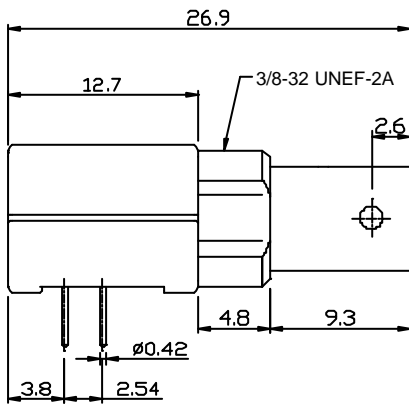
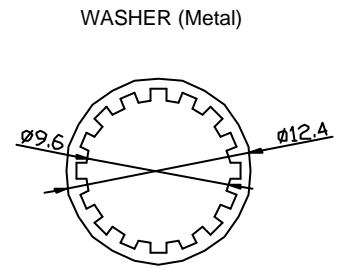
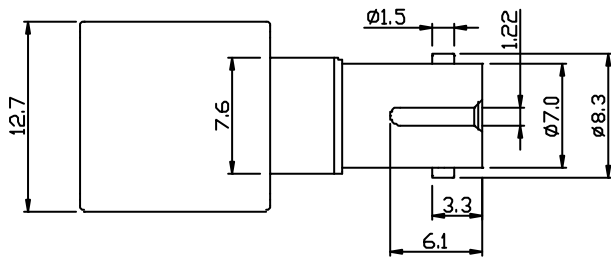
Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Detection Range		1100	1310	1650	nm	-
Gain@10Mbps Single ended	G	46	-	142	V/mW	Measure differentially, AC coupled, RL=50
Bandwidth (to -3dB point)	BW	90	110	-	MHz	-
Saturation Power	P _{sat}	-3	-	-	dBm	BER<10 ⁻¹⁰ @155Mbps PRBS2 ²³ -1, E _r =10dB
Sensitivity	Sens	-	-37	-31	dBm	BER<10 ⁻¹⁰ @155Mbps PRBS2 ²³ -1, E _r =10dB
Output Resistance (Single ended)	R _{out}	32	45	65		-

- Note:**
1. Pin assignment can be custom specified.
 2. ESD precautions must be taken when handling this product.
 3. Specifications subject to change with notice.

Pinout Assignment

PIN	FUNCTION
1	N.C.
2	GND
3	Dout
4	N.C.
5	N.C.
6	VCC
7	$\overline{\text{Dout}}$
8	N.C.

Mechanic Dimension (Units in mm)



Ordering Information

T-11-2315T-08-XX

RoHS Compliant

Blank/G5/GR

Blank = RoHS non-compliant product

G5 = RoHS 5/6-compliant product (lead exemption)

GR = Full RoHS compliant product (no exemption)

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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