T-11-1250-P3-SXX/APC-X-XX



Features

- InGaAs/InP PIN Photodiode with transimpedance amplifier
- High sensitivity with AGC*
- Differential ended output
- Single +3.3V operation
- -40~85°C operating temperature

Packaging

- SM fiber pigtailed with optional SFC/APC and SSC/APC connector **Application**
- 1.25Gbps SDH/SONET/ATM receivers
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25°C)								
Parameter	Symbol	Value	Unit					
Supply Voltage	V _{CC}	4.5	V					
Operating Temperature	T _{opr}	-40 ~ 85	°C					
Storage Temperature	T _{stg}	-40 ~ 85	°C					

DC Electrical Characteristics (Tc=25°C)								
Parameter	Symbol	Min.	Тур.	Max.	Unit			
Power Supply	V _{CC}	3.0	3.3	3.6	V			
Differential Ouptput Voltage	V _d	185	250	415	mV			
Supply Current (no load)	I _{cc}	-	26	50	mA			

(Operating at $V_{CC}=3.3V$, $T_{C}=25^{\circ}C$, $\lambda=1310$ nm, 9/125 μ m SM fiber)

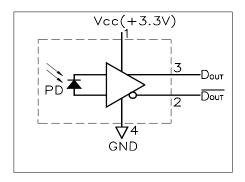
AC/Optical and Electrical Characteristics (Tc=25°C)								
Parameter	Symbol	Min	Тур	Max	Unit	Test Conditions		
Detection Range		1100	1310	1650	nm			
Gain@10Mbps Differential	G	1.92	2.5	3.4	V/mW	Measure differentially with 30uAp-p signal		
Bandwidth (to -3dB point)	BW	700	920	1100	MHz			
Saturation Power	P _{sat}	-3	0	-	dBm	BER<10 ⁻¹² @1.25Gbps, PRBS2 ⁷ -1 Er=10dB		
Sensitivity	Sens.	-	-26	-23	dBm	BER<10 ⁻¹² @1.25Gbps, PRBS2 ⁷ -1 Er=10dB		
Output Resistance	Rout	48	50	62	ohm			

Note: 1.Pin assignment can be customized.

2. Specifications subject to change without

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Pin Assignment

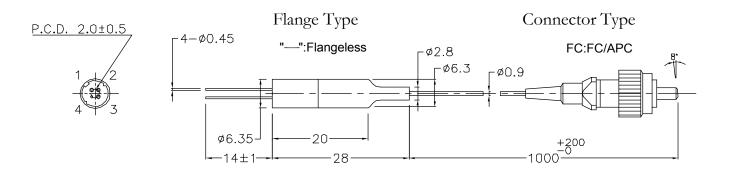


Pin assignment

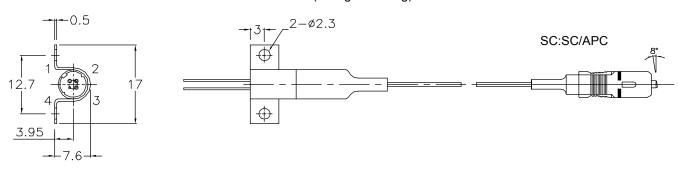
- 1~Vcc
- 2∼Dout
- 3~Dout
- 4~GND(CASE)

Packaging Dimension

Units in mm.



"O":Horizonal (Omega Housing)



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Ordering Information

T-11-1250-P3-SXX/APC-X-XX

Voltage 3=3.3V

Package

P=Pigtail

Onnector 3.3V Connector FC/SC Fiber Application

S=SM 9/125μm

APC=APC Fiber

Flange
"-": without flange
"O": O Type flange

RoHS Compliant --/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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