

T-11-1250-P-SMB-K-XX



Features

- InGaAs/InP PIN Photodiode with transimpedance amplifier
- High sensitivity with AGC*
- Differential ended output
- Single +5V operation
- -40~85°C operating temperature

Packaging

- Pigtail with Molex BSCII connector packaged

Application

- 1.25Gbps SDH/SONET/ATM receivers
- RoHS Compliant available

Absolute Maximum Ratings (Tc=25°C)

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

DC Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Power Supply	V _{CC}	4.5	5.0	5.5	V
Differential Output Voltage	V _d	185	250	415	mV
Supply Current (no load)	I _{cc}	-	26	50	mA

(Operating at V_{CC}=5V , Tc=25°C , λ=1310nm , 9/125μm SM fiber)

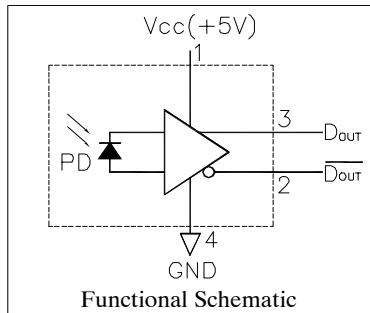
AC/Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Typ	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, PRBS 2 ⁷ -1, Er=10dB
Sensitivity	Sens	-	-26	-23	dBm	BER<10 ⁻¹² @1.25Gbps, PRBS 2 ⁷ -1, Er=10dB
Output Resistance	R _{out}	48	50	62	ohm	-

Note: 1. Pin assignment can be customized.
2. Specifications subject to change without notice.

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Pin Assignment



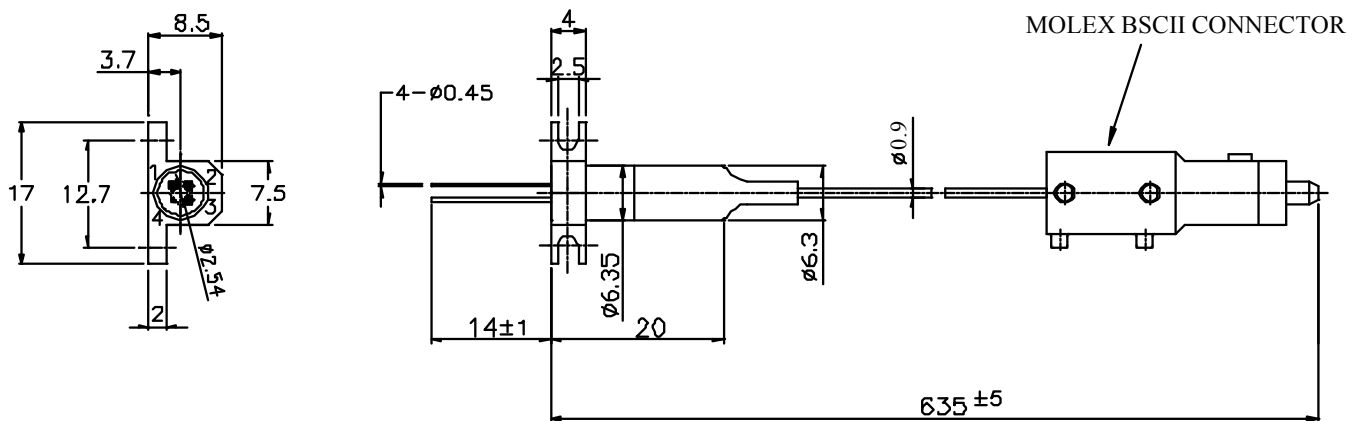
Pin Assignment

- 1 ~ Vcc
- 2 ~ $\overline{Dout}$
- 3 ~ Dout
- 4 ~ GND(CASE)

Packaging Dimension

Units in mm.

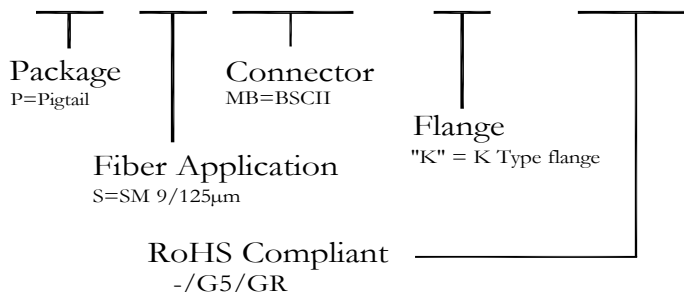
Part Number: T-11-1250-P-SMB-K-XX



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Ordering Information

T-11-1250-P-SMB-K-XX



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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