



Features

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

Packaging

- SC/LC/MU ROSA package

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}	3.0	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)

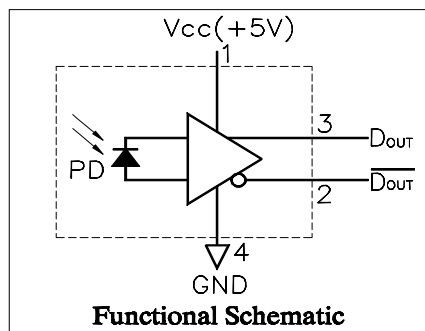
Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Detection Range	-	1100	1310	1650	nm	-
Gain@10Mbps Differential	G	1.92	2.5	3.4	V/mW	Measure differentially with 30uAp-p signal
Bandwidth (to -3dB point)	BW	700	920	1100	MHz	-
Saturation Power	P _{sat}	-3	0	-	dBm	BER<10 ⁻¹² @1.25Gbps, PRBS2 ⁷ -1 Er=10dB
Sensitivity	Sens.	-	-26	-23	dBm	BER<10 ⁻¹² @1.25Gbps, PRBS2 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.

T-11-1250-D-SXX-XX

Pin Assignment



Pin assignment

1~Vcc

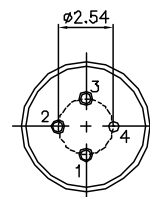
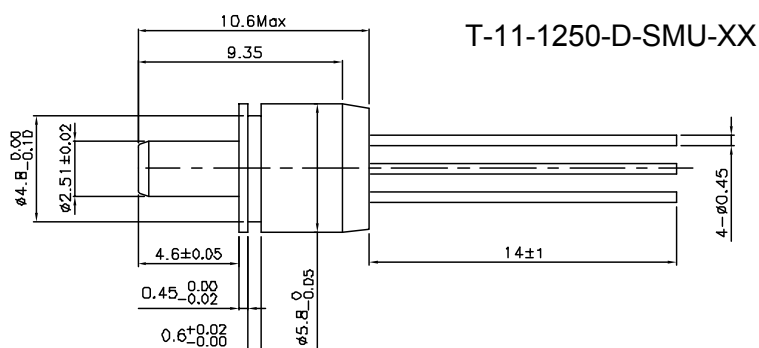
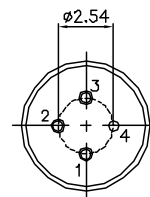
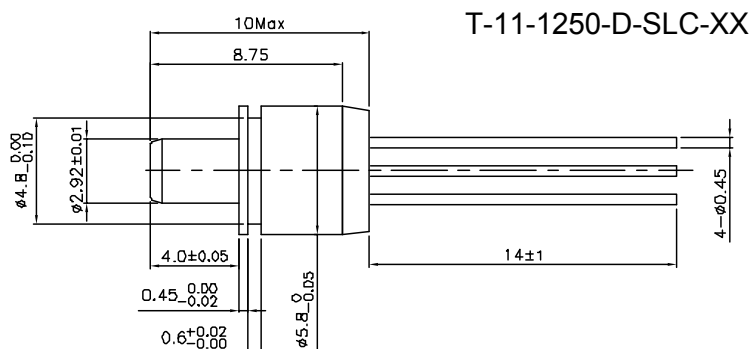
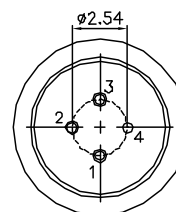
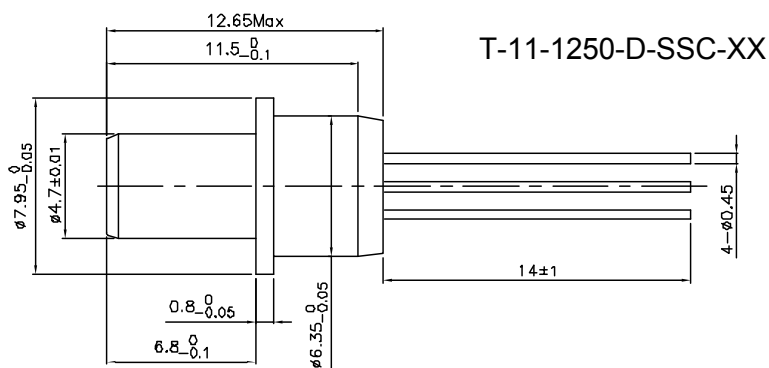
2~ $\overline{\text{Dout}}$

3~Dout

4~GND(CASE)

Packaging Dimension

Units in mm.



T-11-1250-D-SXX-XX

Ordering Information

T-11-1250-D-SXX-XX

Package
D=ROSA

Connector
SC/LC/MU

Fiber Application
S= 9/125 μ m

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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