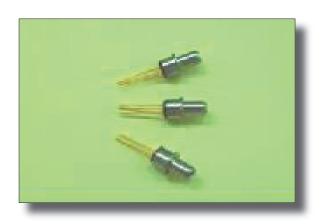
## T-11-622-D3-SXX-XX



#### **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**

• SC/LC/MU ROSA package

## **Application**

- 622Mbps SONET/SDH receivers
- 622Mbps ATM receiver
- RoHS Compliant available

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

DC Electrical Characteristics (Tc=25°C)							
Parameter	Symbol	Min.	Тур.	Max.	Unit		
Power Supply	V <sub>CC</sub>	3.0	3.3	3.6	V		
Differential Ouptput Voltage	V <sub>d</sub>		260	450	mV		
Supply Current (no load)	I <sub>cc</sub>	-	21	30	mA		

## (Operating at V<sub>CC</sub>=3.3V,Tc=25°C, $\lambda$ =1310nm, 9/125 $\mu$ m SM fiber)

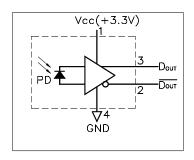
AC/Optical and Electrical Characteristics (Tc=25°C)								
Parameter	Symbol	Min	Тур	Max	Unit	<b>Test Conditions</b>		
Detection Range	-	1100	1310	1650	nm	-		
Gain@10Mbps Differential	G	6	7	-	V/mW	Measure differentially, AC coupled, RL=50 $\Omega$		
Bandwidth (to -3dB point)	BW	404	470	-	MHz	-		
Saturation Power	P <sub>sat</sub>	-7	-6	-	dBm	BER<10 <sup>-10</sup> @622Mbps, PRBS2 <sup>23</sup> -1 Er=10dB		
Sensitivity	Sens.	-	-33	-30	dBm	BER<10 <sup>-10</sup> @622Mbps, PRBS2 <sup>23</sup> -1 Er=10dB		
Output Resistance	Rout	48	50	52	ohm	-		

Note: 1.Pin assignment can be customized.

2. Specifications subject to change without notice.

## T-11-622-D3-SXX-XX

## Pin Assignment

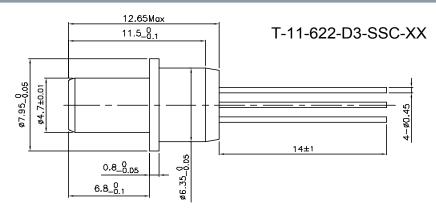


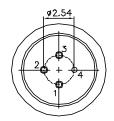
# Pin assignment

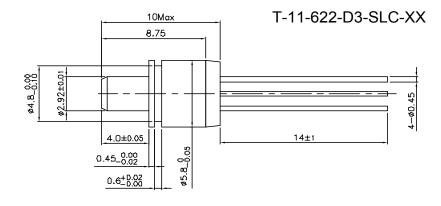
- $1 \sim Vcc$
- 2∼<del>Dou</del>t
- 3~Dout
- 4~GND(CASE)

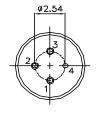
**Packaging Dimension** 

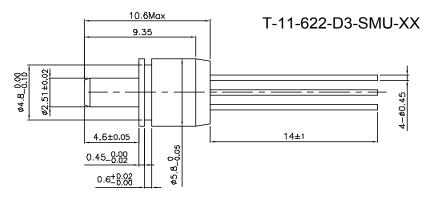
Units in mm.

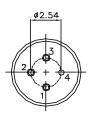






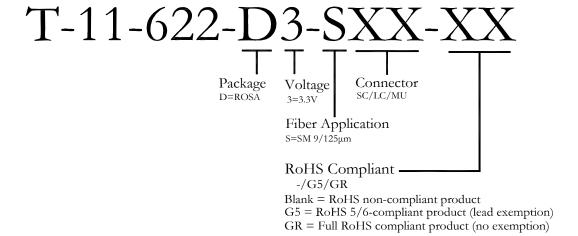






## T-11-622-D3-SXX-XX

### **Ordering Information**



### 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.

## **Legal Notice**

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