



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_{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.	Typ.	Max.	Unit
Power Supply	V_{CC}	3.0	3.3	3.6	V
Differential Output Voltage	V_d	-	260	450	mV
Supply Current (no load)	I_{cc}	-	21	30	mA

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

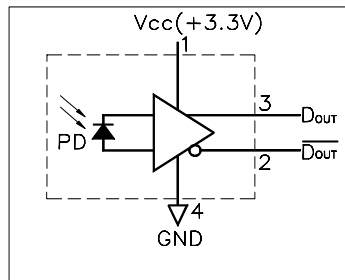
AC/Optical and Electrical Characteristics (Tc=25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Detection Range	-	1100	1310	1650	nm	-
Gain@10Mbps Differential	G	6	7	-	V/mW	Measure differentially, AC coupled, $R_L=50\Omega$
Bandwidth (to -3dB point)	BW	404	470	-	MHz	-
Saturation Power	P_{sat}	-7	-6	-	dBm	$BER<10^{-10}$ @622Mbps, PRBS $2^{23}-1$ $E_r=10dB$
Sensitivity	Sens.	-	-33	-30	dBm	$BER<10^{-10}$ @622Mbps, PRBS $2^{23}-1$ $E_r=10dB$
Output Resistance	R_{out}	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

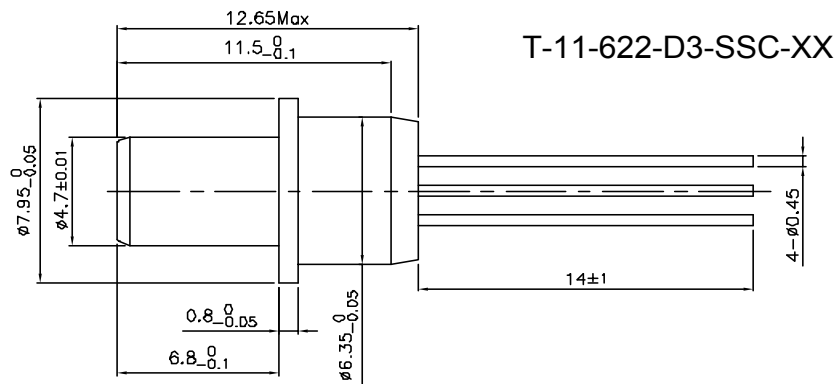


Pin assignment

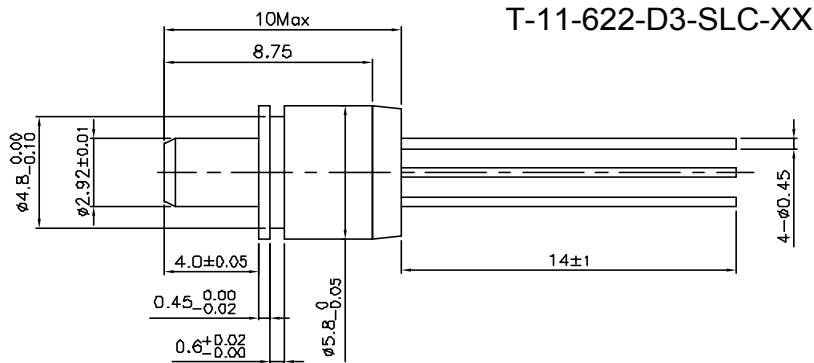
- 1~Vcc
- 2~ $\overline{Dout}$
- 3~Dout
- 4~GND(CASE)

Packaging Dimension

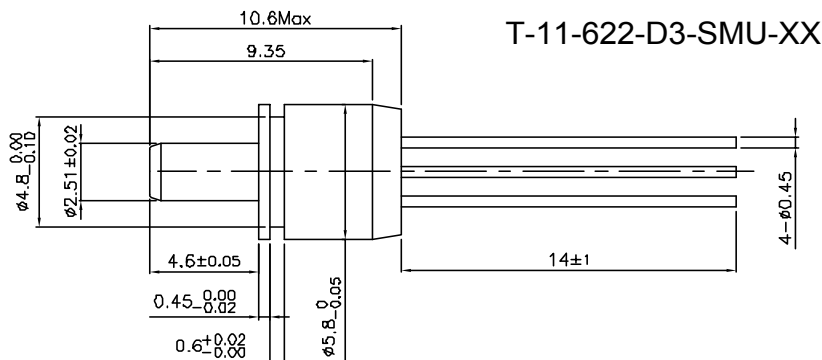
Units in mm.



T-11-622-D3-SSC-XX



T-11-622-D3-SLC-XX



T-11-622-D3-SMU-XX

T-11-622-D3-SXX-XX

Ordering Information

T-11-622-D3-SXX-XX

Package
D=ROSA

Voltage
3=3.3V

Connector
SC/LC/MU

Fiber Application
S=SM 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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