Luminent
Bringing Communications to Light™

Features
- InGaAs/InP PIN Photodiode with transimpedance amplifier
- High sensitivity with AGC*
- Differential ended output
- Single +3.3V operation
- -40 to +85°C operating temperature
- SC/LC/MU ROSA package
- ATM 155Mbps receiver/transceiver application
- Fast Ethernet receiver/transceiver application

Absolute Maximum Rating (Tc=25°C)

Parameter	Symbol	Value	Unit
Supply Voltage	V_{CC}	4.5	V
Operating Temperature	T_{opr}	-40 to +85	°C
Storage Temperature	T_{stg}	-40 to +85	°C

DC Electrical Characteristics(Tc=25°C)

Parameter	Symbol	Min	Typical	Max	Unit
Power Supply	V_{CC}	3.0	3.3	3.6	V
Differential Output Voltage	V_d	-	-	1	V
Supply Current (no load)	I_{CC}	-	-	35	mA

(Operating at V_{cc}=3.3V , Tc=25°C, R_L=1000Ω, λ=1310nm, 9/125μm SM fiber)

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

Parameter	Symbol	Min	Typical	Max	Unit	Test Condition
Detection Range		1100	1310	1650	nm	-
Gain @ 10Mbps Differential	G	52	-	70	V/mW	λ=1310nm
Bandwidth	BW	120	140	-	MHz	-
Saturation Power	P_{sat}	-3	0	-	dBm	λ=1310nm
Sensitivity	Sens	-	-38	-35	dBm	BER=10^{-10}@155Mbps
Output Resistance	R_{out}	-	50	65	ohm	-

Connector Options

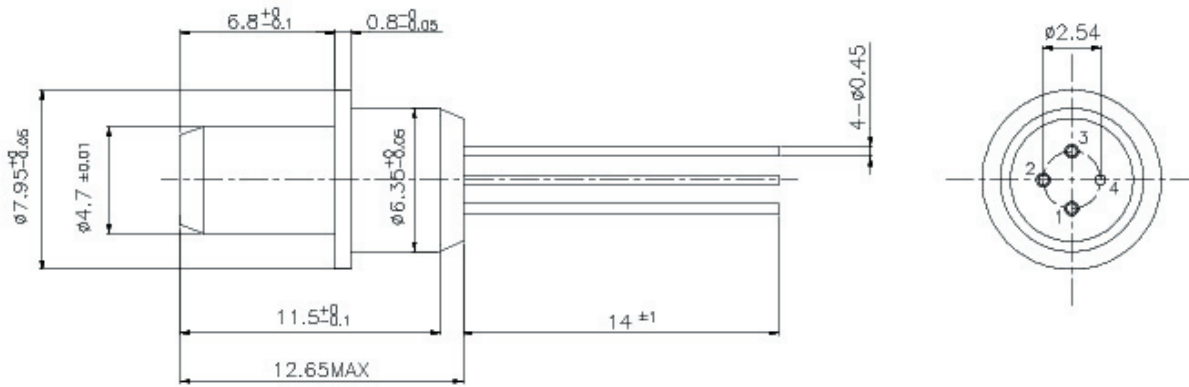| Model	Package	Fiber	Connector
T-11-155-D3-SSC	ROSA	-	SC
T-11-155-D3-SLC	ROSA	-	LC
T-11-155-D3-SMU	ROSA	-	MU

T-11-155-D3-Sxx

Pin Assignment
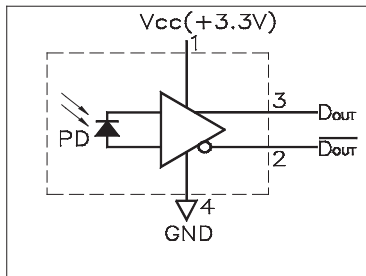
Pin assignment
1~Vcc
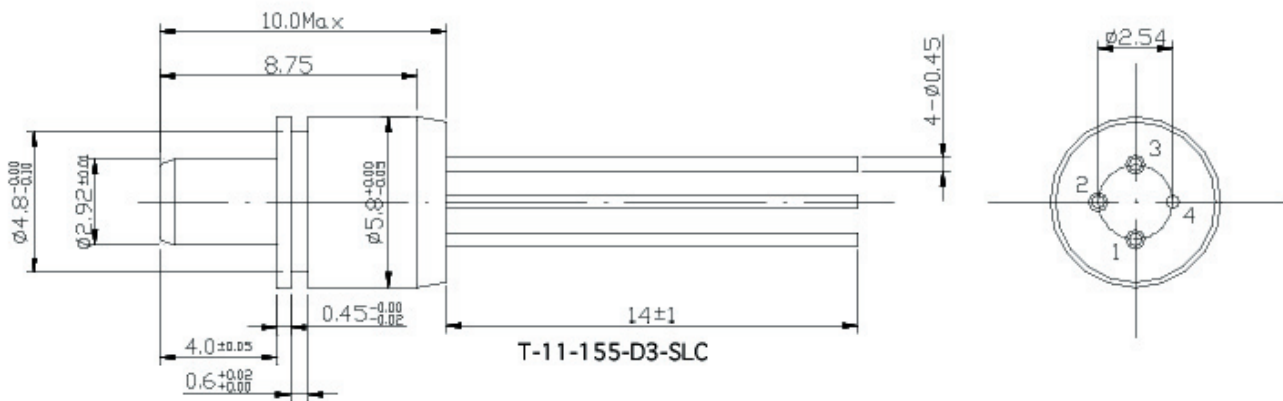2~$\overline{D}$out
3~Dout
4~GND(CASE)

Outline Drawing

155Mbps PIN-TIA Receiver Modules-ROSA (3.3V)
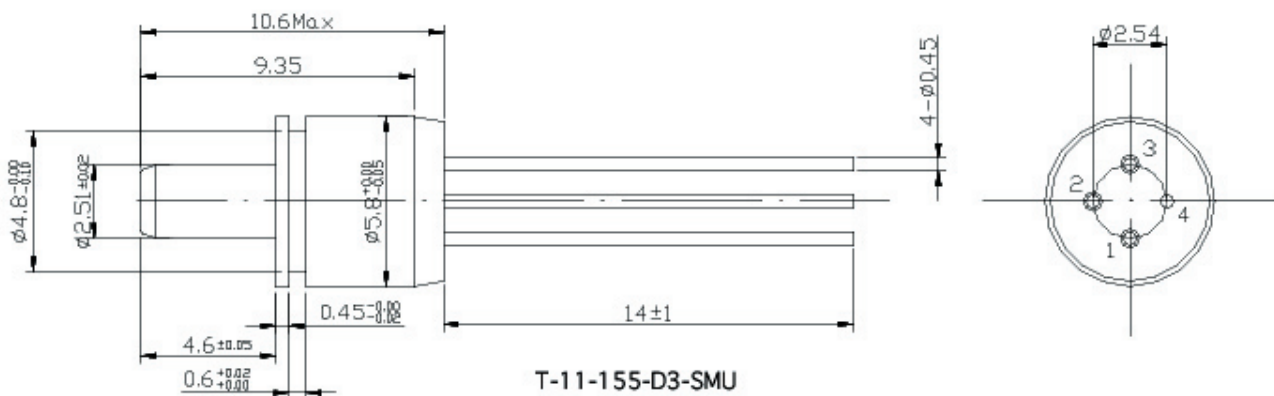
Units in mm

T-11-155-D3-SSC

T-11-155-D3-SLC

T-11-155-D3-SMU

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