### T-11-155-X3-XXX-AGC-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**

- FC/ST/SC receptacle package
- SM/MM fiber pigtailed with optional FC/ST/SC connector

## Applcation

- 155Mbps SDH/SONET/ATM receivers
- 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>	-	-	1	V			
Supply Current (no load)	I <sub>cc</sub>	-	-	35	mA			

# (Operating at V<sub>CC</sub>=3.3V,Tc=25°C,RL=3000 $\Omega$ , $\lambda$ =1310nm, 9/125 $\mu$ m SM & 50/125 $\mu$ m MM fiber)

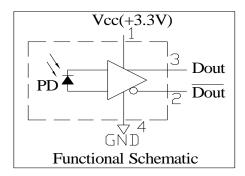
AC/Optical and Electrical Characteristics (Tc=25°C)								
Parameter	Symbol	Min	Тур	Max	Unit	Test Conditions		
Detection Range		1100	1310	1650	nm	-		
Gain@10Mbps Differential	G	52	-	70	V/mW	λ <b>=</b> 1310nm		
Bandwidth	BW	120	140	-	MHz	-		
Saturation Power	P <sub>sat</sub>	-3	0	-	dBm	λ <b>=</b> 1310nm		
Sensitivity	Sens.	-	-38	-35	dBm	BER=10 <sup>-10</sup> @155Mbps		
Output Resistance	Rout	-	50	65	ohm	-		

Note: 1.Pin assignment can be customized.

2. Specifications subject to change without notice.

### T-11-155-X3-XXX-AGC-XX

### Pin Assignment



Pin assignment

1~Vcc

2~Dout

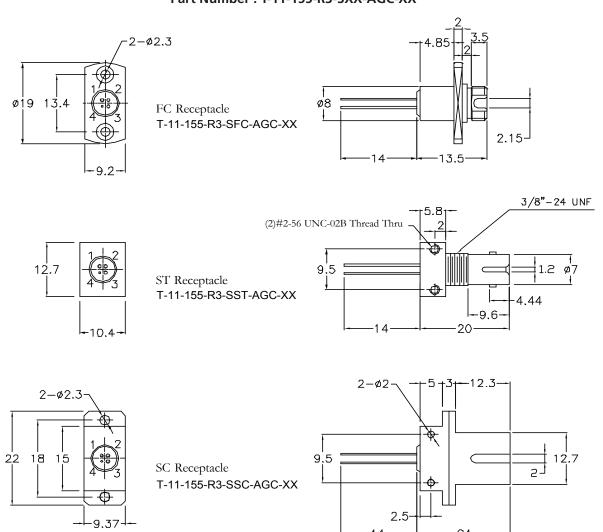
3~Dout

4~GND(CASE)

Packaging Dimension

Units in mm.

# PIN TIA Receiver Module-Receptacle Part Number: T-11-155-R3-SXX-AGC-XX



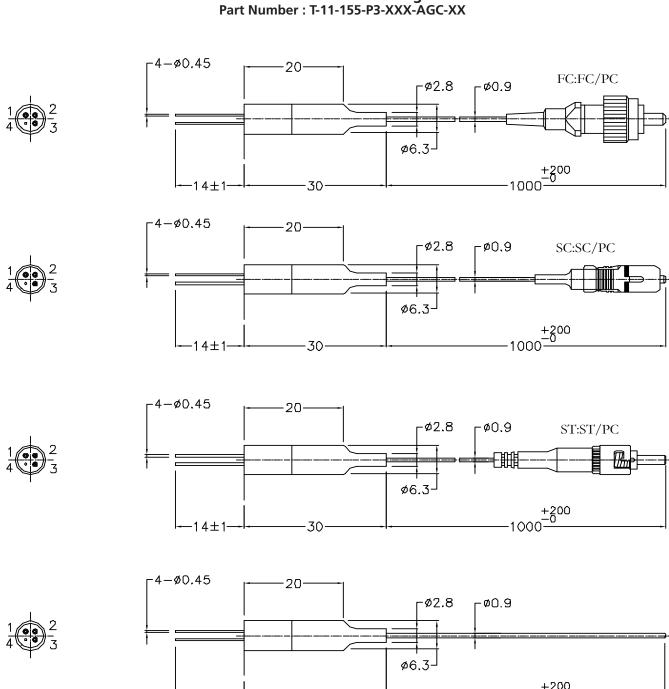
1000

### T-11-155-X3-XXX-AGC-XX

Packaging Dimension

Units in mm.

# **PIN TIA Receiver Module-Pigtail** Part Number: T-11-155-P3-XXX-AGC-XX

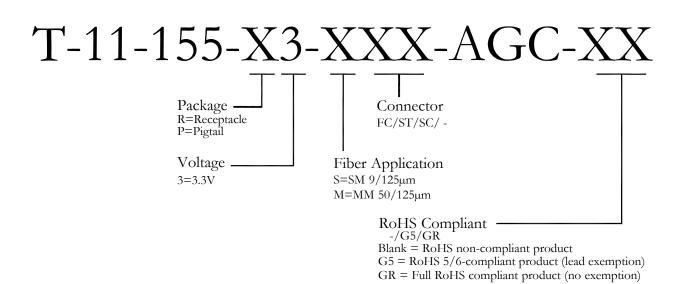


-14±1

30

#### T-11-155-X3-XXX-AGC-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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