



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 packaged

Application

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

Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Value	Unit
Supply Voltage	V_{CC}	4	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	-5	-	5	V
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, 50/125 μm MM fiber)

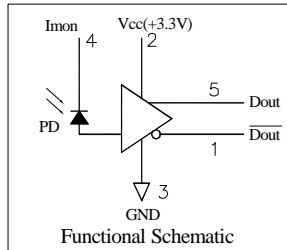
AC/Optical and Electrical Characteristics (Tc=25°C)

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}	-3	0	-	dBm	$BER < 10^{-10}$ @ 622Mbps, PRBS 2 ²³ -1, $E_r=10dB$
Sensitivity	Sens	-	-32	-29	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-11-622M-R3-XXX-XX

Pin Assignment



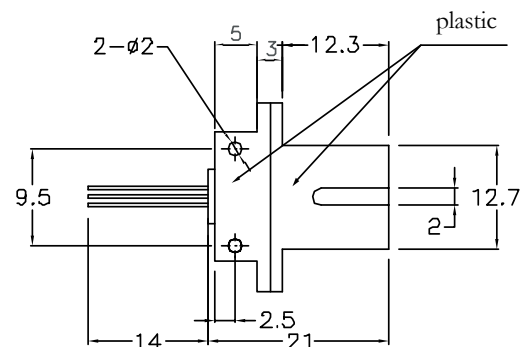
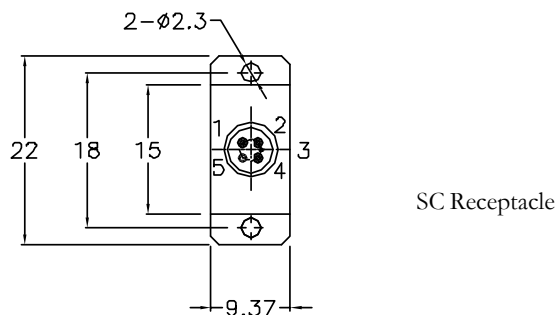
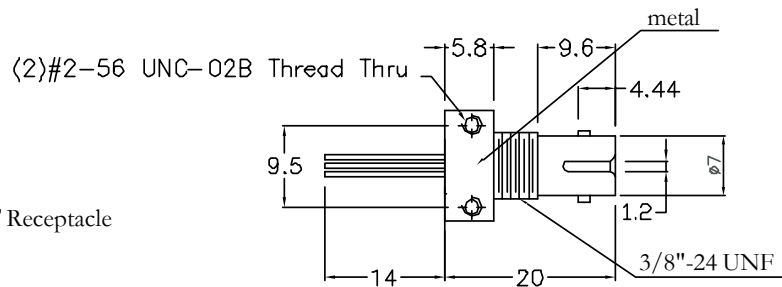
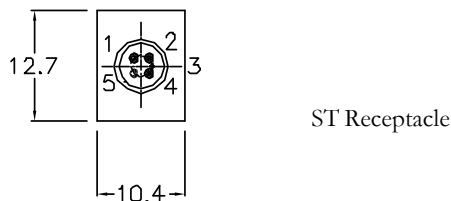
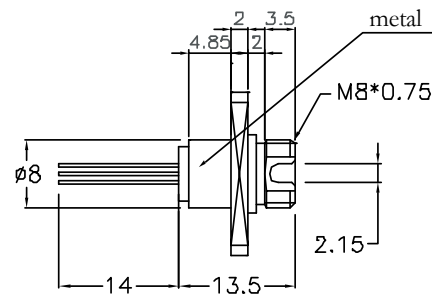
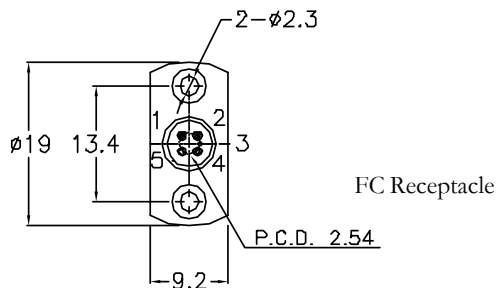
Pin Assignment

- 1~Dout
- 2~Vcc
- 3~GND(CASE)
- 4~Imon
- 5~Dout

Packaging Dimension

Units in mm.

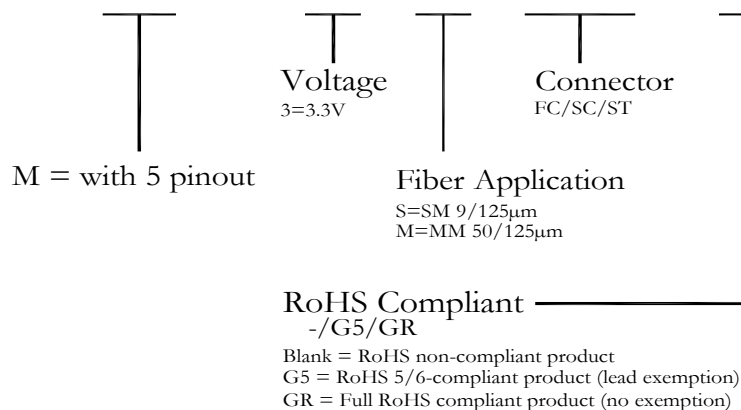
Part Number: T-11-622M-R3-XXX-XX



T-11-622M-R3-XXX-XX

Ordering Information

T-11-622M-R3-XXX-XX



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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