

T-11-622-P3-SFC-AGC • T-11-622-R3-SFC-AGC



Features

- InGaAs/ InP PIN Photodiode with transimpedance amplifier
- High sensitivity with AGC (Auto Gain Control)
- Differential ended output
- Single +3.3 V operation
- -40 to +85°C operating temperature

Packaging

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

Application

- 622 Mbps SONET/ SDH receivers
- 622 Mbps ATM receiver

Absolute Maximum Ratings (T _c = 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 (T _c = 25°C)					
Parameter	Symbol	Min	Тур	Max	Unit
Power Supply	V _{cc}	3	3.3	3.6	V
Differential Output Voltage	V _d	-	-	1.3	V
Supply Current (no load)	I _{cc}	-	-	50	mA

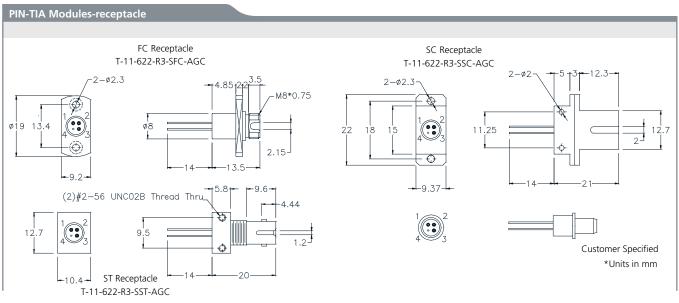
AC Optical and Electrical Characteristics (T _c = 25°C)						
Parameter	Symbol	Min.	Тур	Max	Unit	Test Condition
Detection Range		1100	1310	1650	nm	-
Gain @10 Mbps, Differential	G	0.3	-	30	V/mW	λ= 1310nm
Bandwidth, (to -3dB point)	BW	450	-	-	MHz	
Saturation Power	P _{sat}	-3	0	-	dBm	λ= 1310nm
Sensitivity	Sens	-	-31	-29	dBm	BER=10 ⁻¹⁰ @ 622 Mbps
Output Resistance	R _{out}	-	50	65	ohm	

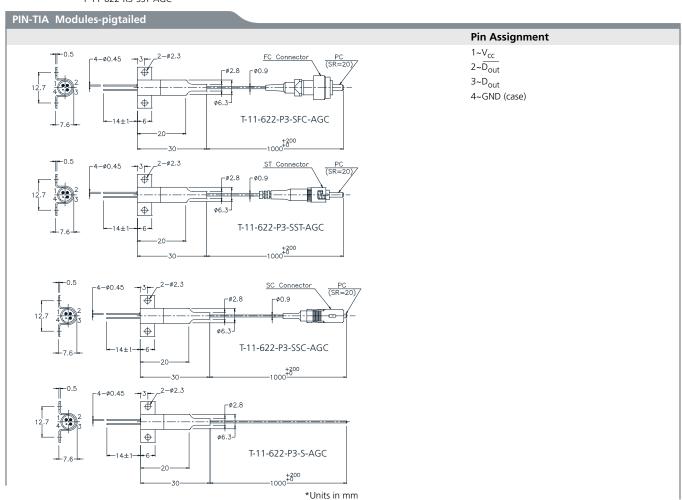
(Operating at V_{cc}= 3.3V, T_c= 25°C, R_L= 3000 Ω , λ = 1310 nm, 9/125 μ m SM fiber)

Connector Options			
Model	Package	Fiber	Connector
T-11-622-R3-SFC-AGC	Receptacle	-	FC
T-11-622-R3-SST-AGC			ST
T-11-622-R3-SSC-AGC			SC
T-11-622-P3-SFC -AGC		SM	FC
T-11-622-P3-SST -AGC			ST
T-11-622-P3-SSC -AGC			SC
T-11-622-P3-S –AGC	Pigtailed		(None)
T-11-622-P3-MFC -AGC	rigianca		FC
T-11-622-P3-MST -AGC			ST
T-11-622-P3-MSC -AGC		MM	SC
T-11-622-P3-M -AGC			(None)



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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.

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