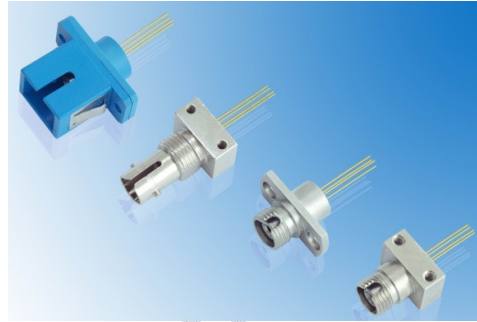


GPTR-T1XXX

3.125Gbps PIN-TIA Receiver Modules (Receptacle Module)



Features

- ◆ High sensitivity
- ◆ Differential ended output
- ◆ Single +3V, +5V, 3.3/5V operation
- ◆ Trans-impedance amplifier with AGC
- ◆ RoHS Compliant Products Available

Applications

- ◆ 3.125Gbps Bit Rate application
- ◆ Fast Ethernet receiver/transceiver application

General

GPTR-T1XXXX Series is a TO-based 3.125Gps, 4 pin or 5 pin PIN-TIA. It provides high sensitivity with AGC and 100ohm differential outputs. A photodiode is mounted into a low capacitance coaxial package integrated with a receptacle.

Ordering Information (Standard version ^{*Note1})

Part No.	Wavelength (nm)	Voltage (V)	Package	Pin Type	Insulation
GPTR-T130AJ	1270~1620	3.3	A	A	Y
GPTR-T15DB	1270~1620	5	B	D	N
GPTR-T100C	1270~1620	3.3/5	C	A	N
GPTR-T130DJ	1270~1620	3.3	D	A	Y
GPTR-T150E	1270~1620	5	E	A	N

*Note1: For more ordering information, please refer the nomenclature and contact EPOTOLINK sales.

Absolute maximum ratings

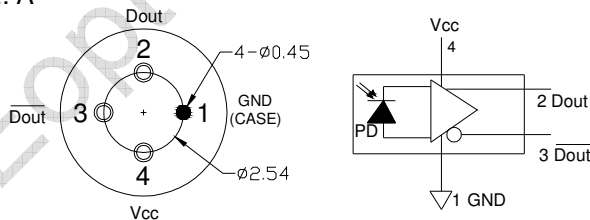
Parameter	Min	Typ.	Max	Unit
Storage Temperature	-40	25	85	□
Operating Temperature	-40	25	85	□
TIA Supply Voltage	3.1	3.3	3.5	V
	4.5	5	5.5	
PD Reverse Voltage	-		15	V
Operation Relative Humidity	-		85	%
Soldering Temperature / Time	-		260/10	°C/s

Electrical and optical characteristics

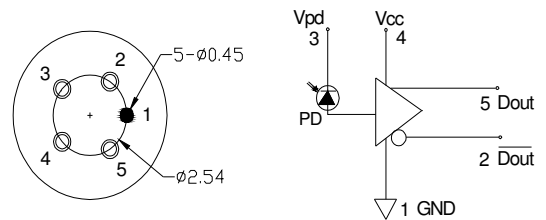
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Operating Wavelength	λ	1270		1620	nm	
Supply Current	I _{cc}			40	mA	No Loads
Saturation Power	P _{sat}	-3	0	-	dBm	VR=5V, 25°C
Small-Signal Bandwidth	BW		3.125		GHz	at -3dBm
Sensitivity			-21	-19	dBm	$\lambda=1310\text{nm}, 3.125\text{Gbps},$ BER=10 ⁻¹⁰ @ PRBS= 2 ²³ -1
Output Resistance	R _o		50		Ω	
Rise /FallTime	T			4.5		10~90%

Pin Assignment ^{Note2}

TYPE: A

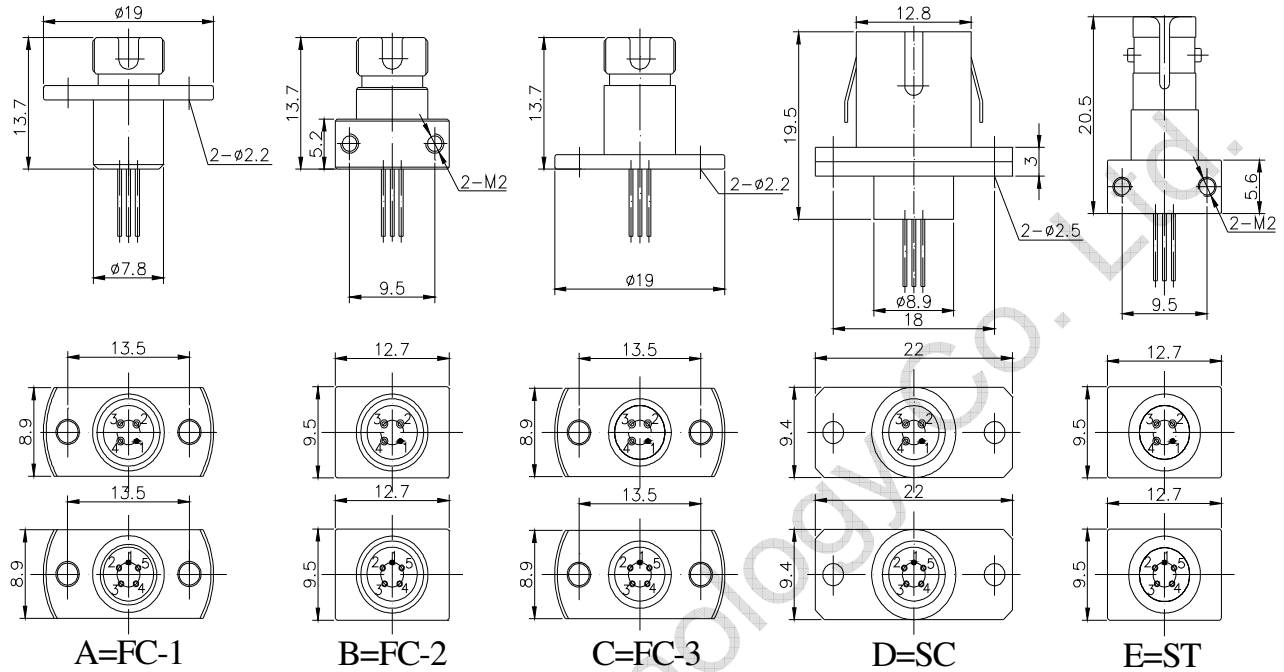


TYPE: D

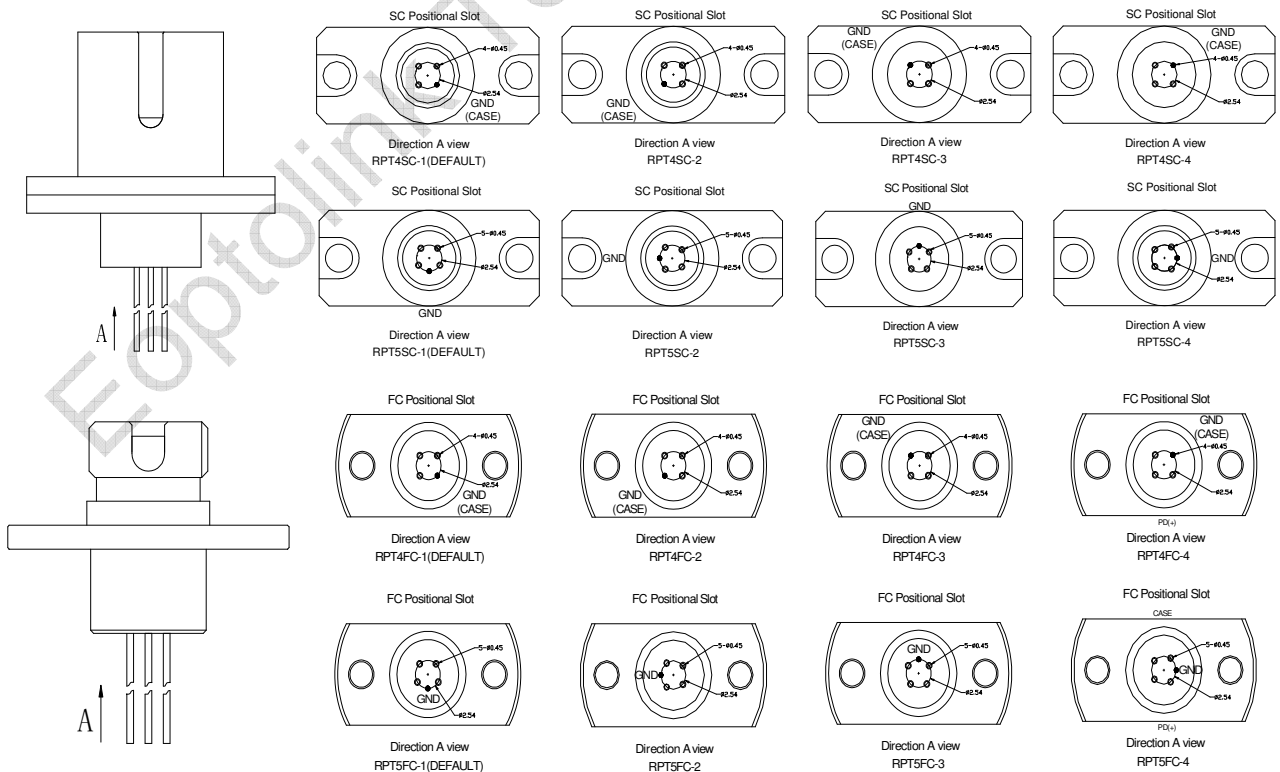


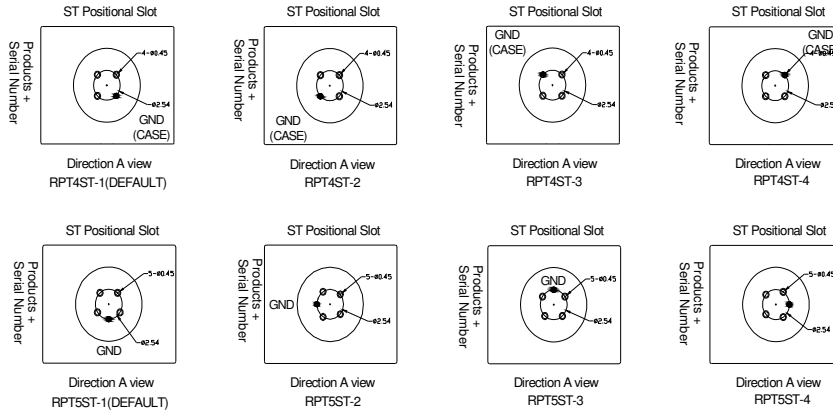
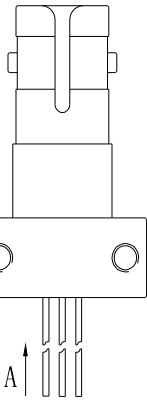
Note2: Other Pin type can be customized.

Receptacle Package series

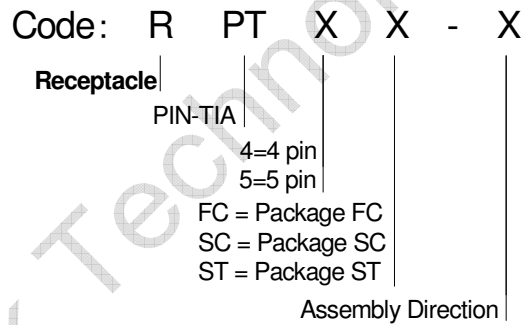


The direction of fix card





Nomenclature of assembly direction *Note3



*Note3: Please designate the code of assembly direction.

Nomenclature



A	Date rate	T=3.125Gbps				
B	Wavelength	1=1270~1620nm				
C	Voltage	3=3.3V	5=5V	0=3.3/5V		
D	Pin Type	0= pin-A			D= pin-D	
E	Package series	A=FC-1	B=FC-2	C=FC-3	D=SC	E=ST
F	Insulation	Blank=NO Insulation			J= Insulation	

Precaution

- (1) The modules should be handled in the same manner as ordinary semiconductor devices to prevent the electro-static damages. For safe keeping and carrying, the modules should be packaged with ESD proof material. To assemble the modules on PCB, the workbench, the soldering iron and the human body should be grounded.
- (2) Please pay special attention to the atmosphere condition because the dew on the module may cause some electrical damages.
- (3) Under such a strong vibration environment as in automobile, the performance and reliability are not guaranteed.

Obtaining Document

You can visit our website:

<http://www.eoptolink.com>

Or contact Eoptolink Technology Inc., Ltd. listed at the end of the documentation to get the latest documentation.

Revision History

Version	Initiated	Reviewed	Approved	Release Date
Va-4	Zore.Zhao	Kelly.Cao		2009-12-29

Notice:

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