

5V / 155 Mbps InGaAs PIN-TIA Receiver

PT-3500 Series

InGaAs PIN-TIA WITH RECEPTACLE

FEATURES

- 2 InGaAs/InP PIN Photodiode with AGC transimpedance amplifier
- 2 Differential ended output
- 2 Single +5V operation
- 2 - 40 ~ +85 °C operation temperature

DESCRIPTION

PT-3500 series are designed as optical signal receivers with AGC transimpedance amplifier. Their wide dynamic ranges, differential outputs are suited for telecommunications, especially SONET OC-3 / SDH STM-1, Fast Ethernet, and Fiber Channel.

AC / ELECTRICAL AND OPTICAL CHARACTERISTICS (T _c =25°C)						
Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
	Detection Range		1100	1310	1650	nm
G	Gain@10Mbps Differential	$\lambda = 1300\text{nm}$	0.17	-	220	V/mW
BW	Bandwidth	P _f = 1 μ W	120	140		MHz
Psat	Saturation Power	$\lambda = 1300\text{nm}$	-3	0	-	dBm
Sens	Sensitivity	BER=10 ⁻¹⁰ @155Mbps	-	-38	-36	dBm
Rout	Output Resistance		-	50	65	ohm
	Operation Speed			155	170	Mbps

DC / ELECTRICAL CHARACTERISTICS (T _c =25°C)					
Symbol	Parameter	Min.	Typ.	Max.	Unit
V _{CC}	Power Supply	4.5	5	5.5	V
I _{CC}	Supply Current (no load)	-	-	35	mA

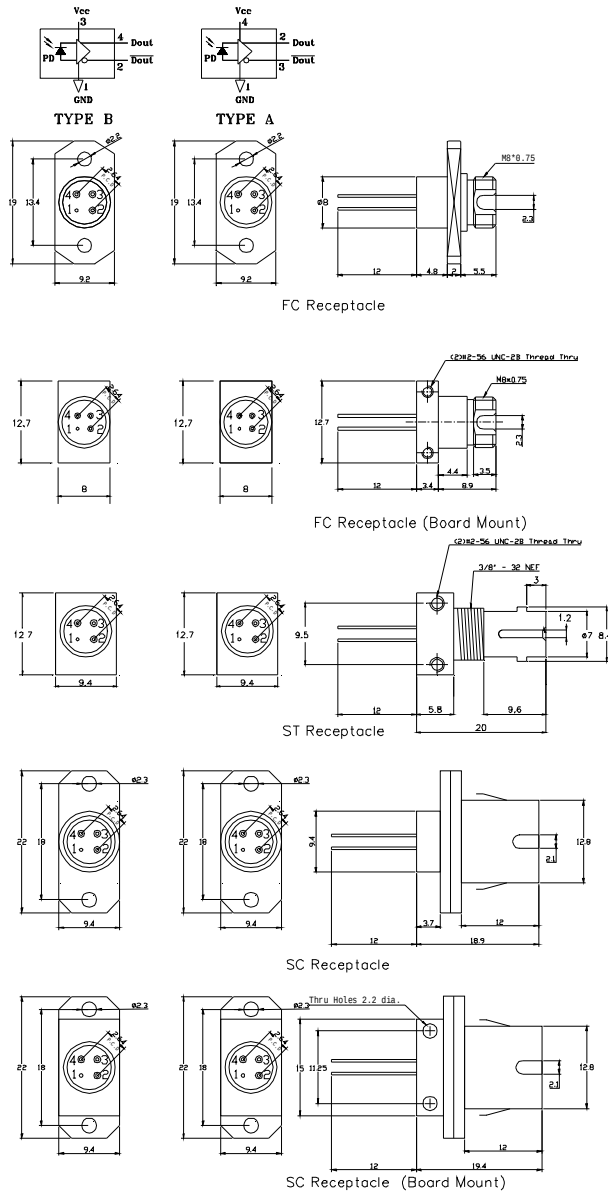
ABSOLUTE MAXIMUM RATING (T _c =25 °C)			
Symbol	Parameter	Value	Unit
V	Voltage	6	V
T _{opr}	Operating Temperature	-40~+85	°C
T _{stg}	Storage Temperature	-40~+85	°C

MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT

OPTOWAY TECHNOLOGY INC.

No.38, Kuang Fu S. Road, Hu Kou, Hsin Chu Industrial Park, Hsin Chu, Taiwan 303
 Tel: 886-3-5979798 Fax: 886-3-5979737
 e-mail: sales@optoway.com.tw http: // www.optoway.com.tw 5/18/2002 V1.0

Note: Specifications subject to change without notice.



ORDER INFORMATION

Part No.: P T - 3 5 0 -

Code	Voltage
0	+5V
3	+3.3V

Code	PIN Assignment
Blank	Type A
B	Type B

Code	Connector Type
F	FC/PC
FB	FC/PC (Board Mount)
T	ST/PC
S	SC/PC
SB	SC/PC (Board Mount)