

3.3V / 2.5 Gbps InGaAs PIN-TIA Receiver

PT-9530

InGaAs PIN-TIA WITH RECEPTACLE

FEATURES

- ✧ InGaAs/InP PIN Photodiode with AGC transimpedance amplifier
- ✧ Differential ended output
- ✧ Single +3.3V operation
- ✧ Speed up to 2.5 Gbps
- ✧ - 40 ~ +85 °C operation temperature

DESCRIPTION

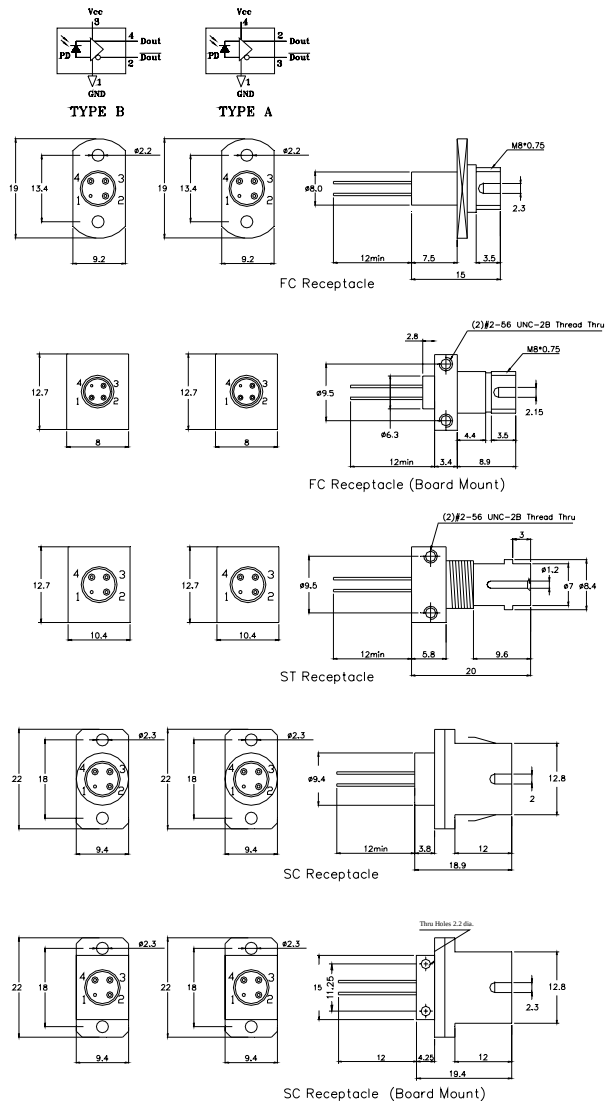
PT-9530 series are designed as optical signal receivers with AGC transimpedance amplifier. Their wide dynamic ranges, differential outputs are suited for telecommunications, especially Gigabit Ethernet, Fiber Channel and SONET OC-48.

AC / ELECTRICAL AND OPTICAL CHARACTERISTICS (T _C =25°C)						
Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
	Detection Range		1100	1310	1650	nm
G	Differential Gain	AC coupled, load=50 Ω	2	2.5	3	V/mW
BW	Bandwidth	-3 dB point	1.5	2		GHz
Psat	Saturation Power	λ =1300nm	-3	-	-	dBm
Sens	Sensitivity	BER=10 ⁻¹⁰ @2.5 Gb/s		-21	-19	dBm
Rout	Output Resistance		-	50	65	ohm
	Operation Speed			2500		Mbps

DC / ELECTRICAL CHARACTERISTICS (T _C =25°C)					
Symbol	Parameter	Min.	Typ.	Max.	Unit
V _{CC}	Power Supply	3.15	3.3	3.45	V
I _{CC}	Supply Current (no load)	-	-	40	mA

ABSOLUTE MAXIMUM RATING (T _C =25 °C)			
Symbol	Parameter	Value	Unit
V	Voltage	4.5	V
T _{opr}	Operating Temperature	-40~+85	°C
T _{stg}	Storage Temperature	-40~+85	°C

MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT



Note: Specifications subject to change without notice.

ORDER INFORMATION

Part No.: P T - 9 5 3 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)