3.3V / 1.25 Gbps InGaAs PIN-TIA Receiver PT-7330 Series

InGaAs PIN-TIA WITH PIGTAIL

FEATURES

- InGaAs/InP PIN Photodiode with AGC transimpedance amplifier
- Differential ended output
- Single +3.3 V operation
- Speed up to 1.25 Gbps
- - 40 ~ +85 ºC operation temperature

DESCRIPTION

PT-7330 series are designed as optical signal receivers with AGC transimpedance amplifier. Their wide dynamic ranges, differential outputs are suited for telecommunications, especially Gigabit Ethernet and Fiber Channel.

AC / ELECTRICAL AND OPTICAL CHARACTERISTICS (Tc=25°C)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
	Dectection Range		1100	1310	1650	nm
G	Differential Gain	AC coupled, Load=50 Ω	6	8	10	V/mW
BW	Bandwidth	-3 dB point	850			MHz
Psat	Saturation Power	λ =1300nm	-3			dBm
Sens	Sensitivity	BER=10^{-12} @1.25 Gb/s			-24	dBm
Rout	Output Resistance		-	50	65	ohm
	Operation Speed			1250		Mbps

DC / ELECTRICAL CHARACTERISTICS (Tc=25°C)

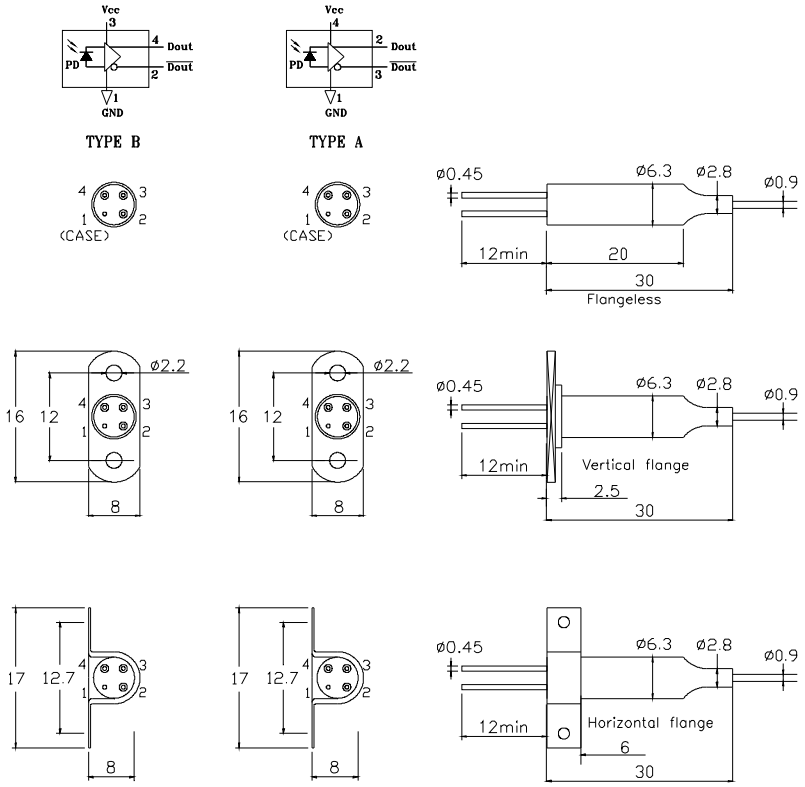
Symbol	Parameter	Min.	Typ.	Max.	Unit
Vcc	Power Supply	3.15	3.3	3.45	V
Icc	Supply Current (no load)	-	40	60	mA

ABSOLUTE MAXIMUM RATING (Tc=25 ºC)

Symbol	Parameter	Value	Unit
V	Voltage	4.5	V
Topr	Operating Temperature	-40~+85	ºC
Tstg	Storage Temperature	-40~+85	ºC

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MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT



Note: Specifications subject to change without notice.

ORDER INFORMATION

Part No.: P T - 7 3 3 □ □ - □ □□

Code	Fiber
0	SMF, 9/125 µm
1	MMF, 50/125 µm
2	MMF, 62.5/125 µm

Code	PIN Assignment
Blank	Type A
B	Type B

Code	Flange
V	Vertical
H	Horizontal
X	No Flange

Code	Connector
S	SC/PC
F	FC/PC
T	ST/PC
X	No Connector
SA	SC/APC
FA	FC/APC
TA	ST/APC

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3.3V / 1.25 Gbps InGaAs PIN-TIA Receiver PT-7530 Series

InGaAs PIN-TIA WITH RECEPTACLE

FEATURES

- InGaAs/InP PIN Photodiode with AGC transimpedance amplifier
- Differential ended output
- Single +3.3V operation
- Speed up to 1.25 Gbps
- - 40 ~ +85 ºC operation temperature

DESCRIPTION

PT-7530 series are designed as optical signal receivers with AGC transimpedance amplifier. Their wide dynamic ranges, differential outputs are suited for telecommunications, especially Gigabit Ethernet and Fiber Channel.

AC / ELECTRICAL AND OPTICAL CHARACTERISTICS (T_C=25°C)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
	Dectection Range		1100	1310	1650	nm
G	Differential Gain	AC coupled, Load=50 Ω	6	8	10	V/mW
BW	Bandwidth	-3 dB point	850			MHz
Psat	Saturation Power	λ =1300nm	-3	-	-	dBm
Sens	Sensitivity	BER=10^{-12} @1.25 Gb/s			-24	dBm
Rout	Output Resistance		-	50	65	ohm
	Operation Speed			1250		Mbps

DC / ELECTRICAL CHARACTERISTICS (T_C=25°C)

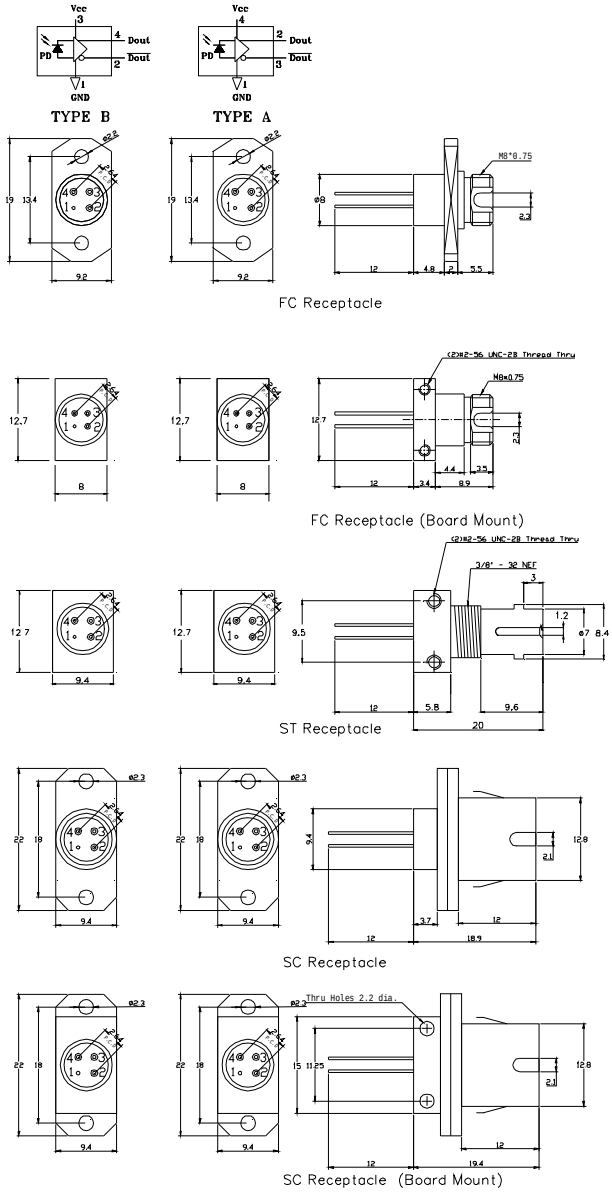
Symbol	Parameter	Min.	Typ.	Max.	Unit
V_{CC}	Power Supply	3.15	3.3	3.45	V
I_{CC}	Supply Current (no load)	-	-	40	mA

ABSOLUTE MAXIMUM RATING (T_C=25 ºC)

Symbol	Parameter	Value	Unit
V	Voltage	4.5	V
T_{opr}	Operating Temperature	-40~+85	ºC
T_{stg}	Storage Temperature	-40~+85	ºC

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MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT



Note: Specifications subject to change without notice.

ORDER INFORMATION

Part No.: P T - 7 5 3 0 □ - □□

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)

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