3.3V / 622 Mbps InGaAs PIN-TIA Receiver PT-5330 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 622 Mbps
- - 40 ~ +85 ºC operation temperature

DESCRIPTION

PT-5330 series are designed as optical signal receivers with AGC transimpedance amplifier. Their wide dynamic ranges, differential outputs are suited for telecommunications, especially SONET OC-12 / SDH STM-4, 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	16	20	24	V/mW
BW	Bandwidth	-3 dB point	450			MHz
Psat	Saturation Power	λ =1300nm	-3		-	dBm
Sens	Sensitivity	BER=10^{-10} @622Mbps	-	-31	-30	dBm
Rout	Output Resistance		-	50	65	ohm
	Operation Speed			622		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	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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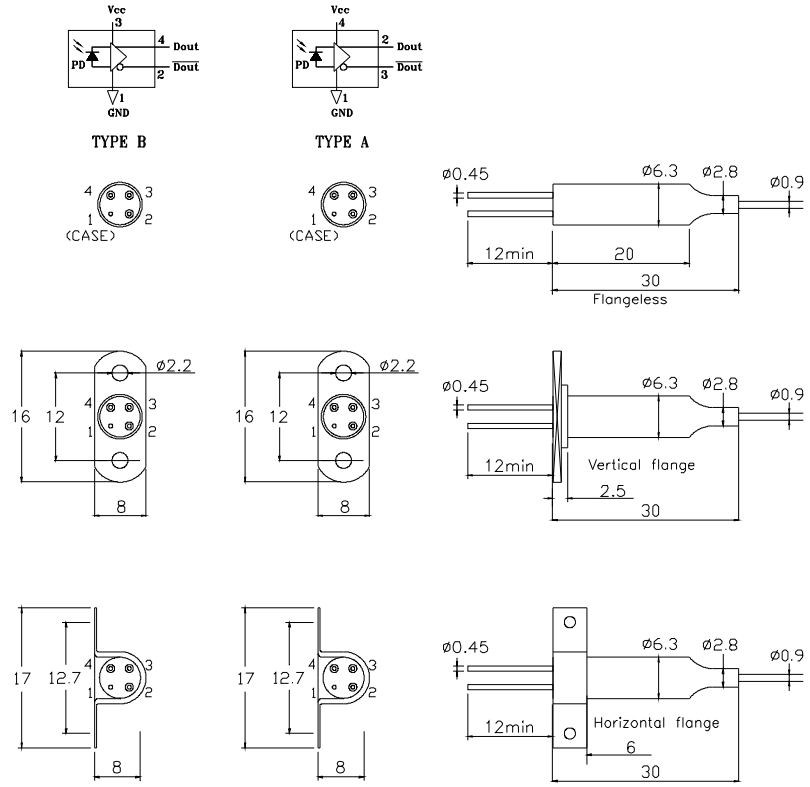
MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT



Note: Specifications subject to change without notice.

ORDER INFORMATION

Part No.: P T - 5 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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