

InGaAs PIN-TIA Receiver Module APT-010XX/APT-011XX

■ Features

- a. Trans-impedance Amplifier
- b. Low Dark Current
- c. High Reliability

■ Applications

Fiber Optical Transmission System



■ Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit
Reverse Voltage	V_r	-	30	V
Operating Temperature	T_{op}	-40	85	
Storage Temperature	T_{stg}	-40	100	
Soldering Temperature, Time	-	-	260 , 10 S	,S

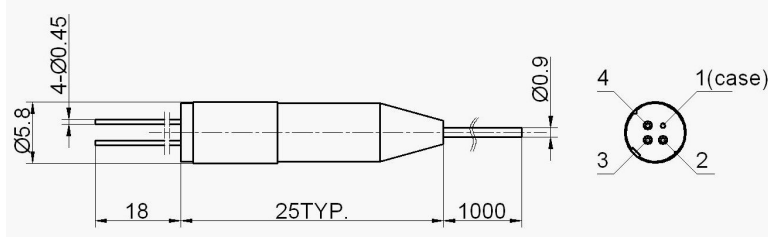
■ Optical and Electrical Characteristics (T=25)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Operating Wavelength	λ	1100	-	1600	nm	-
Saturation Power	P	-3	0	-	dBm	-
Sensitivity	S	-36	-38	-	dBm	BER=10 ⁻¹⁰ 155Mbps
Gain	G	0.17	-	220	V/mW	-
Dark Current	I_d	-	1	5	nA	$V_r=5V$
Output Resistance	Z	-	50	-	Ω	-

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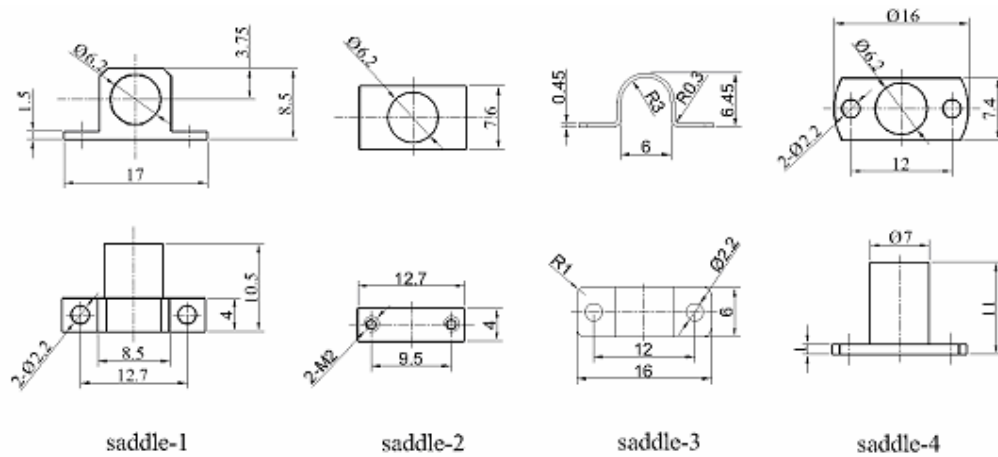
Dimension and Pin Assignment (mm)

Pigtail Type

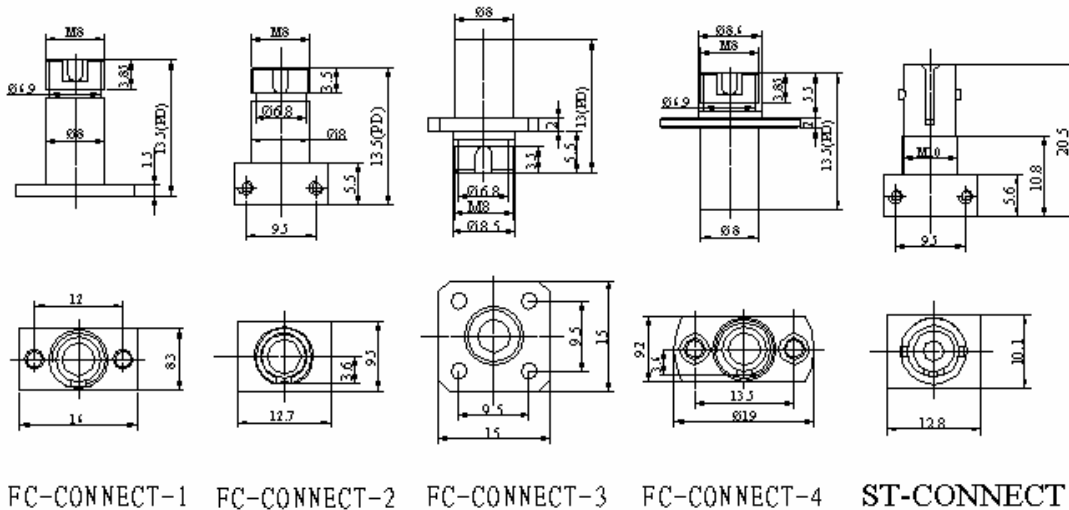


Pin	Function
1	ground
2	V _{CC}
3	D _{out} (+)
4	D _{out} (-)

Pigtail with SC, FC, ST Connector.



Receptacle Type



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■ Ordering Information

Part No.	Product	Connector
APT-01001	InGaAs PIN-TIA Receptacle	ST
APT-01002	InGaAs PIN-TIA Receptacle	FC-Connect-2
APT-01003	InGaAs PIN-TIA Receptacle	FC-Connect-1
APT-01004	InGaAs PIN-TIA Receptacle	FC-Connect-3

Part No.	Product	Connector	Saddle Type
APT-01101	InGaAs PIN-TIA Pigtail	FC/PC	Saddle-1 Saddle-2
APT-01103	InGaAs PIN-TIA Pigtail	ST/PC	Saddle-3 Saddle-4