

Features

- InGaAs/InP PIN Photodiode with transimpedance amplifier
- High sensitivity with AGC*
- Differential ended output
- Single +3.3V operation
- -40~85°C operating temperature

Packaging

- SM fiber pigtailed with optional SFC/APC、SSC/APC connector

Application

- 1.25Gbps SDH/SONET/ATM receivers



Note:

1. Pin assignment can be customized
2. Specifications subject to change without notice

Handling Precautions

This device is susceptible to damage as a result of electrostatic discharge (ESD). A static free environment is highly recommended. Follow guidelines according to proper ESD procedures

*AGC- Auto Gain Control

Absolute Maximum Ratings(Tc=25°C)

Parameter	Symbol	Value	Unit
Supply Voltage	V _{cc}	4.5	V
Operating Temperature	T _{opr}	-40~+85	°C
Storage Temperature	T _{stg}	-40~+85	°C

DC Electrical Characteristics(Tc=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Power Supply	V _{cc}	3.0	3.3	3.6	V
Differential Output Offset Voltage	V _d	-0.1	-	0.1	V
Supply Current (no load)	I _{cc}	-	34	47	mA

(Operating at V_{cc}=3.3V, Tc=25°C, λ=1310nm, 9/125 μm SM fiber)

AC/Optical and Electrical Characteristics(Tc=25°C)

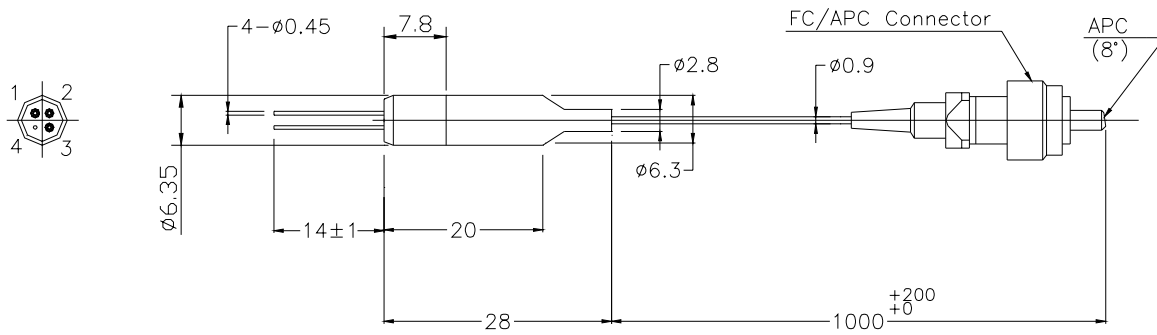
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test condition
Detection Range		1100	1310	1650	nm	-
Differential Small-signal transimpedance	R _{tr}	6.6	-	-	kΩ	Measure differentially AC coupled R _L =50Ω
Bandwidth (to -3dB point)	BW	850	1000	-	MHz	
Saturation Power	Psat	-3	0	-	dBm	λ=1310nm
Sensitivity	Sens	-	-23	-21	dBm	BER=10 ⁻¹⁰ @1.25Gbps, PRBS7
Output Resistance	R _{out}	40	50	62	ohm	

Connector Options

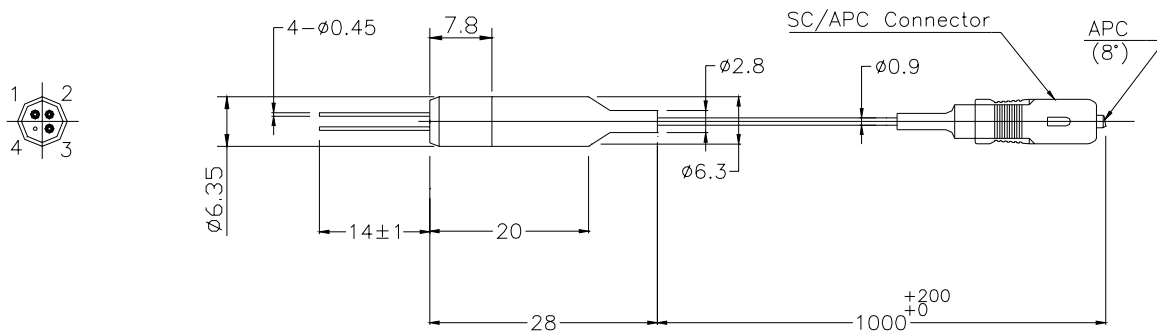
Model	Package	Fiber	Connector	Flange
T-11-1250-P3-SFC/APC	Pigtailed	SM	FC/APC	O type included
T-11-1250-P3-SSC/APC	Pigtailed	SM	SC/APC	O type included
T-11-1250-P3-SFC/APC-O	Pigtailed	SM	FC/APC	O type fixed
T-11-1250-P3-SSC/APC-O	Pigtailed	SM	SC/APC	O type fixed

Pigtailed-APC type(O type flange included)

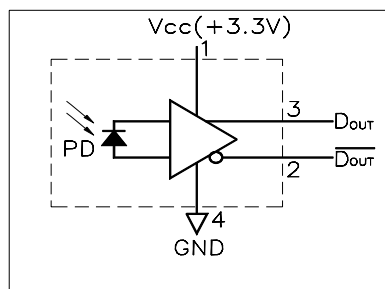
Units in mm.



T-11-1250-P3-SFC/APC



T-11-1250-P3-SSC/APC

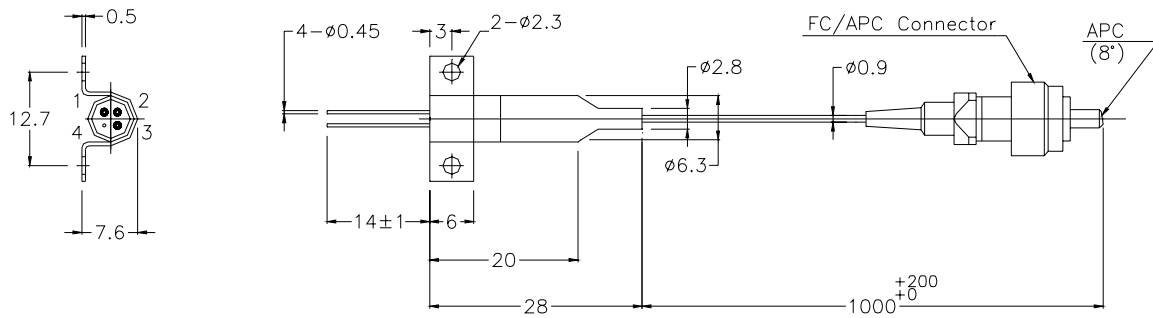


Pin assignment

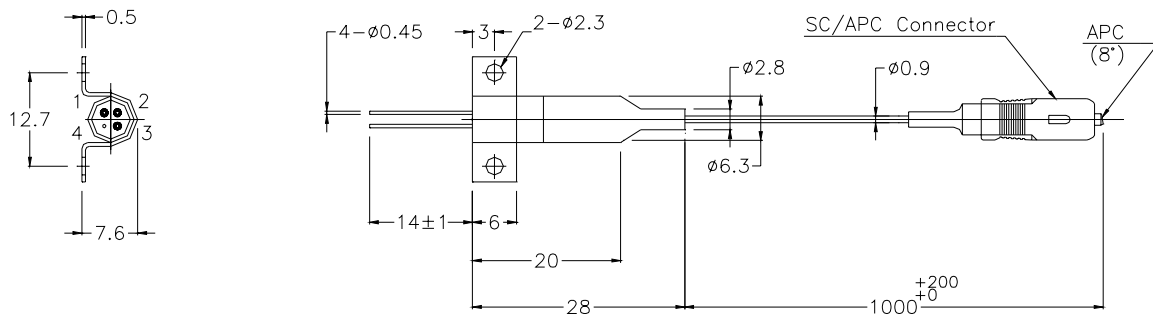
- 1~Vcc
- 2~ $\overline{Dout}$
- 3~Dout
- 4~GND(CASE)

Pigtailed-APC type(O type flange fixed)

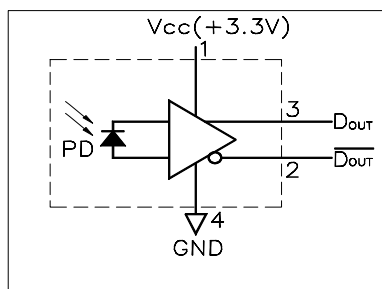
Units in mm.



T-11-1250-P3-SFC/APC-O



T-11-1250-P3-SSC/APC-O



Pin assignment

- 1~Vcc
- 2~ $\overline{\text{Dout}}$
- 3~Dout
- 4~GND(CASE)