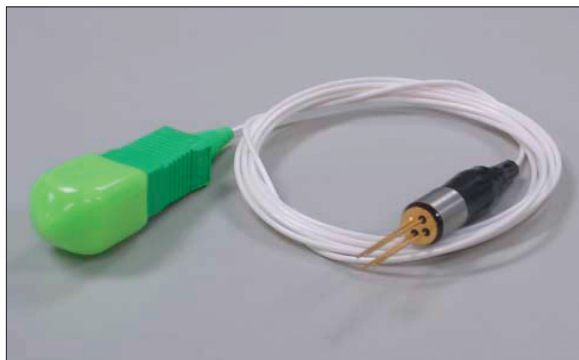


T-11-2500-P/3-SSC/APC



Features

- InGaAs/InP PIN Photodiode with transimpedance amplifier
- High sensitivity with AGC
- Differential ended output
- Single+3.3V/5V operation
- -40~85°C operating temperature
- SM fiber pigtailed SC/APC connector
- 2.5Gbps SDH/SONET/ATM receivers

Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Value	Unit
Supply Voltage	V _{CC}	6	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	-	5.5	V
Differential Ouput Voltage	V _d	0.22	0.38	0.57	V
Supply Current (no load)	I _{cc}	-	34	63	mA

(V_{CC}=+3.0 to 5.5V, Typical values are at V_{CC}=3.3V, Tc=25°C, λ=1310nm, 9/125 μm SM fiber)

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

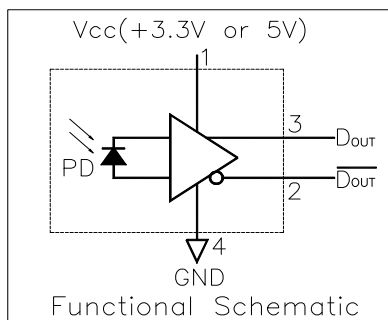
Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Detection Range		1100	1310	1650	nm	
Gain@10Mbps Differential	G	1.5	2.3	3.2	V/mW	Measure differentially AC coupled RL=50Ω
Bandwidth (to -3dB point)	BW	1500	2000	-	MHz	
Saturation Power	P _{sat}	-3	0	-	dBm	BER=10-10@2.5Gbps, PRBS23
Sensitivity	Sens.	-	-21	-18	dBm	BER=10-10@2.5Gbps, PRBS23
Output Resistance	Rout	48	50	52	ohm	

Note: 1.Pin assignment can be customized.

2.Specifications subject to change without notice.

T-11-2500-P/3-SSC/APC

Pin Assignment



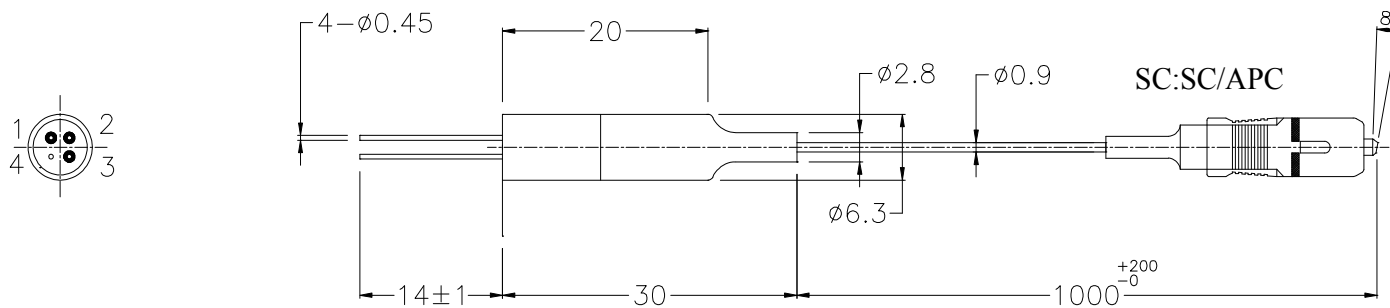
Pin Assignment

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

Packaging Dimension

Units in mm.

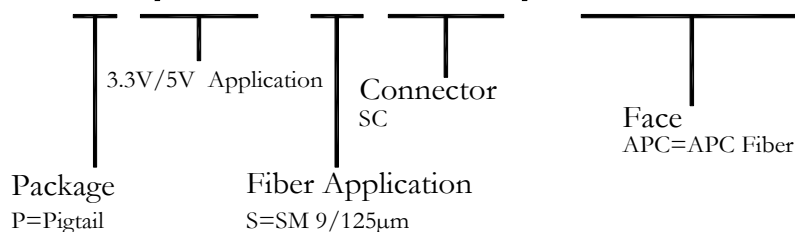
Part Number: T-11-2500-P/3-SSC/APC



T-11-2500-P/3-SSC/APC

Ordering Information

T-11-2500-P/3-SSC/APC



Warnings

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.

Laser Safety: Radiation emitted by laser devices can be dangerous to human eyes. Avoid eye exposure to direct or indirect radiation.

Legal Notice

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