



## 155Mb/s 5-pin Pigtailed PIN/TIA

### ***PTCM961-411***

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#### **Features**

- *Data rates up to 155Mb/s*
- *High performance InGaAs PIN Photodiode with Transimpedance Amplifier (TIA)*
- *Operating wavelength range:*
- *1250~1620nm*
- *Single +3.3V power supply*
- *Wide dynamic range*
- *Pigtail package (5-pin)*
- *RoHS compliant*

#### **Application**

- *SDH STM-1/SONET OC-3 transmission system*
- *Optical Monitoring Channel*
- *Other Fiber Link applications*

## Absolute Maximum Ratings

Parameter	Symbol	Unit	Min	Max
Storage Temperature Range	Ts	°C	-40	85
Relative Humidity	RH	%	5	95
Power Supply Voltage	Vcc		-	4.5
Lead Solder Temperature	-	°C	-	260
Lead Solder Duration	-	S	-	10
Input Optical Power	Pin	dBm	-	3

## Recommended Operating Conditions

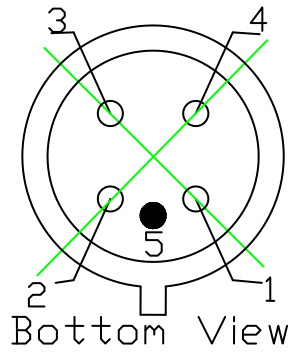
Parameter	Symbol	Unit	Min	Typ	Max
Case Operating Temperature Range	Tc	°C	-40	25	85
Power Supply Voltage	Vcc		3	3.3	3.6
PD Supply Voltage	Vpd		3	3.3	3.6
Relative Humidity	RH	%	5	-	95

## Specifications *(T=25 °C, unless otherwise noted)*

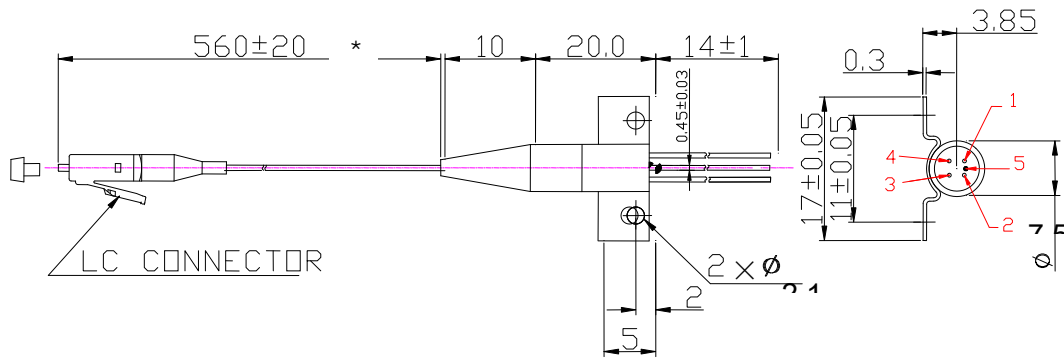
Parameter	Symbol	Unit	Min	Typ	Max	Test condition
Electrical Characteristics						
Operating Current	Icc	mA	-	22	32	No loads
Detector Dark Current	Id	nA	-	-	5	
Output Impedance	Ro	Ω	-	50	-	Single ended
-3dB Bandwidth	BW	MHz	110	140	-	
Differential Output Voltage	Vout	mVp-p	-	-	800	
Optical Characteristics						
Wavelength Range	λ	nm	1250	-	1620	
Sensitivity	S	dBm	-	-	-37	NRZ, ER=10dB, 155Mb/s,
Overload	Pin-max	dBm	-3	-	-	PRBS 223-1, BER=10-10
Responsivity	R	A/W	0.80	0.85	-	1310nm

## Pin Description

Pin	Name	Description	Pin	Name	Description
1	Vcc	TIA supply	4	Vout	Data +
2	Vpd	PD supply	5	GND	Case Ground
3	VoutB	Data -			



## Package Outline



**Note:(\*):** The asterisk denotes the fiber length of PTCM961-411

## Ordering Information

Part No	Specifications						
	Package	Data rate	Detector	Sensitivity	Temp	Fiber length	Others
PTCM961-411	5pin Coaxial Pigtailed	155M	PIN+TIA	<-37dBm	-40~85°C	560± 20mm	Ω flange , LC connector
PTCM961-411-C10	5pin Coaxial Pigtailed	155M	PIN+TIA	<-37dBm	-40~85°C	700± 20mm	Ω flange , LC connector

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