

## 1、Description

WDM PD is a device which can transform the transmitted optical signal to electronic signal while choosing the different wavelength.

PD is worked under the effect of backward voltage, when there is no light shine, the reverse current is very low, which called dark current ; when there is light shine, the reverse current suddenly increase to several microampere, which called light electric current. The reverse current is big while the light power is high. The electric current changes according to the power of light changes, then the light signal can be changed to electrical signal, which called photo-electronic light sensors.

## 2、Feature

- Low insertion loss & high isolation
- Optical path epoxy free
- Telcordia compliant
- RoHS compliant

## 3、Specification

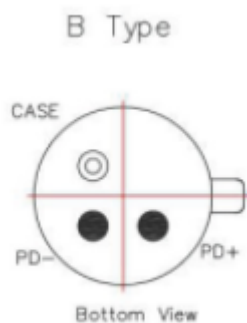
### 3.1 Optical & Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Wavelength Range	$\lambda$	1310 Reflection band:1260~1360 1490 Reflection band:			nm	-

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		1480~1500 1550 Pass band: 1550~1560				
<b>Reflection Insertion loss</b>	IL	≤0.60			dB	
<b>Reflection Isolation</b>	Iso	≥15			dB	
<b>Return loss</b>	RL	≥45			dB	
<b>Power Range</b>	P	-70	-	+3	dBm	V <sub>i</sub> =5V
<b>Active Diameter</b>	Ad	25		80	um	-
<b>Dark Current</b>	I <sub>d</sub>	-	0.2	0.5	nA	-
<b>Responsivity</b>	R	-	0.85	0.90	A/W	λ=1310 nm
			0.90	0.95		λ=1550 nm
<b>Frequency Bandwidth</b>	BW	1		10000	MHz	
<b>Frequency Response</b>	Fr	-	±0.5	-	dB	
<b>Capacitance</b>	Ct	-	0.5	0.65	Pf	-
<b>Response Time</b>	Tr	-	-	1	ns	-
<b>Operating Temperature range</b>		-40~+85			°C	
<b>Storage Temperature range</b>		-40~+85			°C	

### 3.2 Pin table



## 4. Application

- CATV system
- WDM channel monitoring WDM
- FTTX system
- Channel monitoring
- Optical line protection

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