

PWDM Photodetector Module

Description

PWDM pigtail detector pin diode Photodetector

Features

- Low Insertion loss, Low return loss
- High Channel Separation
- High Stability and Reliability
- No Plastic Optical Path

Application

- Light circuit terminal, Optical network unit
- Optical transceiver, FTTH
- Cable TV systems
- WDM systems



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Specifications

Parameters	Symbol	Unit	Min	Typ	Max	Test Condition
Pass Channel Wavelength Range	λ	nm	1539	1550	1565	
Reflect Channel Wavelength	λ	nm	1260	1310	1360	
			1480	1490	1500	
Responsivity	R	A/W	0.85			Vr=5V, $\lambda=1550\text{nm}$
Insert Loss	Pass Channel	IL	dB		0.8	
	Reflect Channel				0.6	
Isolation	Pass Channel	Iso	dB	35		$\lambda=1310\text{nm}$ $\lambda=1490\text{nm}$
	Reflect Channel			20		$\lambda=1550\text{nm}$
Polarization Dependent Loss	Pass Channel	PDL	dB		0.05	
	Reflect				0.05	



	Channel						
Directivity		Dir	dB	50			
Return Loss		RL	dB	45			

Absolute Maximum Ratings(TC=25°C)

Parameters	Symbol	Unit	Min	Max
Saturation	Ps	mW		5
Forward current	If	mA		10
Reverse voltage	Vr	V		30
Reverse current	Ir	mA		5
Operating Temperature	Top	°C	-40	+85
Storage Temperature	Tstg	°C	-40	+85