

Polarization Maintaining DWDM Components

FIBERWDM can support 100Ghz Or 200Ghz there port Polarization Maintaining DWDM (PM DWDM) Components in ITU Grid C-band, the PM DWDM Components are characterized with low IL, high return loss, high extinction ratio and excellent environmental stability and reliability, so great used in polarization maintaining fiber amplifiers, DWDM network, and high speed communication system and instrumentation .

Features

- ◆ Low insertion loss
- ◆ High Extinction Ratio
- ◆ High channel isolation
- ◆ High stability and reliability



Specifications

Parameters	Unit	Values	
Channel Space	Ghz	100	200
Center Wavelength	nm	ITU Grid	
Center Wavelength Accuracy	nm	±0.05	±0.1
Channel Pass band (@-0.5dB)	nm	0.22	0.5
Max. Insertion Loss of Transmission Channel	dB	1.0	0.9
Max. Insertion Loss of Reflection Channel	dB	0.4	0.4
Min. Transmission Isolation @Reflection Wavelength	dB	30	30
Min. Reflection Isolation @Transmission Wavelength	dB	10	10
Max. Channel Flatness	dB	0.3	
Min. Extinction Ratio at 23℃	dB	18	
Max. Wavelength Thermal Stability	nm/℃	0.003	
Max. Insertion Loss Thermal Stability	dB/℃	0.005	
Min. Return Loss	dB	50	
Max. Power Handling (CW)	mW	500	
Fiber Type	-	PM Panda fiber	
Operating Temperature	℃	0~+70	
Storage Temperature	℃	-40~+85	

1. Above specifications are for device without connector, and the PM WDM device is both axis working. All parameters are tested at room temperature.
2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower. Power transmits through the connector less than 2W. The default connector key is aligned to slow axis.
3. For >10W high power applications, we will use heat sink package, contact FIBERWDM for details.
4. If there is pulse application, please be sure to inform us of pulse energy and peak power.

5. 1XN PM DWDM module is also available, please contact FIBERWDM.

Package Information



Order Information

PMD	Channel Spacing	Channel	Package	Connector	Pigtails Diameter	Fiber Length	Working Axis
	1: 100Ghz	C21	S: steel tube	01U/A: LC/UPC or LC/APC	25:250µm bare fiber	05:0.5m	B: Both axis working
	2: 200Ghz	C22	X: others	02U/A: SC/UPC or SC/APC	90:900µm Loose Tube	10:1.0m	
		C23		03U/A: FC/UPC or FC/APC	XX: Others	15:1.5m	
		Others		04U/A: others		XX: Others	

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250µm bare fiber pigtail.

Part Number Example: PMD-1-S-01A-90-10

Description: 100GHz Polarization Maintaining DWDM, C21(1560.61nm), LC/APC all ports, 0.9mm 1.0m fiber, Steel tube, Both axis working.

If you need to customize other specifications, please provide detailed description for your requirement, and contact us by email: sales@fiberwdm.com