



2000/1570 1X2 Polarization Maintaining Filter WDM

Key Features

- Low Insertion Loss
- High Isolation
- High Extinction Ratio
- High power handling
- High Stability and Reliability

The 2000/1570nm Polarization Maintaining Filter WDM multiplexes PM signals and maintains the output polarization with high extinction ratio using advanced micro-optic filter technology. All input and output fibers are polarization maintaining. It utilizes advanced filter technology to yield wide-band, low insertion loss, high polarization extinction, high return loss in a compact package. This product can also be used to multiplex other wavelengths. It can also be provided with a PM isolator integrated in the same package. They are ideal for polarization maintaining fiber amplifiers, fiber lasers, and instrumentation applications.

Applications

- Fiber laser
- Fiber amplifier
- Fiber Sensor
- Monitoring in Coherent Systems
- Communications



For more Info

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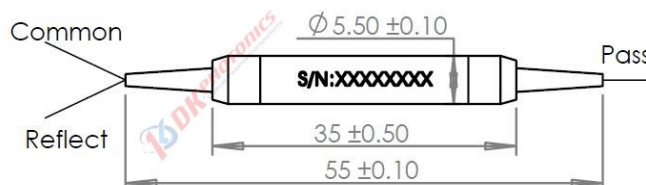
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

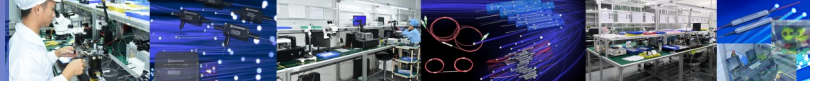
Dahe Road, Longhua Dis.,

Shenzhen, China 518109

Package Dimension:



*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.



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Performance Specifications

Parameter	Unit	Values
Pass band Wavelength	nm	1900~2050
Min. Isolation at 23°C	dB	25(Typ.30)
Max. Insertion Loss at 23°C	dB	1.2 (Typ.0.8)
Max. Extinction Ratio at 23°C	dB	20
Reflection band Wavelength	nm	1520~1590
Max. Insertion Loss at 23°C	dB	1.0
Min. Isolation at 23°C	dB	12(Typ.15)
Min. Extinction Ratio	dB	20
Min. Return Loss	dB	50
Max. Optical Power (CW)	W	0.3, 0.7, 1, 2, 3, 5
Max. Peak Power for ns Pulse if any	kW	1, 5, 10
Max. Thermal Stability	dB/°C	0.005 over -5 °C to +70 °C
Fiber Type		
Common & Pass Port	-	PM1950 fiber or other
Reflect Port	-	PM1550 fiber
Operating Temperature	°C	-5~+70
Storage Temperature	°C	-40~+85
Package Dimensions	mm	Ø5.5 x L35(<5W), 60x12x8(>5W)

- Above specifications are for device without connector, all parameters are tested at room temperature.
- PM WDM device is both axis working, but we can integrate a polarizer to achieve the pass wavelength fast axis blocked, contact DK Photonics for details.
- 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.
- For >10W high power applications, we will use heat sink package, contact DK Photonics for details.
- If there is pulse application, please be sure to inform us of pulse energy and peak power.

Order information P/N: PMFWDM-①-②-③-④-⑤

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.

①	②	③	④	⑤
Wavelength	Power Handling	Pigtails Diameter	Fiber Length	Connector
2057: 2000nm pass/1570nm reflect	S:<0.3W L:<0.7W 1:1W 2:2W	25:250µm bare fiber 90:900µm Loose Tube XX: Others	05:0.5m 08:0.8m 10:1.0m XX: Others	00: None FP: FC/PC FA: FC/APC XX: Others

Part Number Example: PMFWDM-2057-S-25-10-00

Description: 2000/1570nm Polarization Maintaining Filter WDM - 0.3W,2000nm pass/1570nm reflect, PM1550 fiber on R, PM1950 fiber on C & P port, with bare fiber, 1.0m fiber length, and no connector at all ports.

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.