

## 1X2 Polarization Maintaining CWDM

### Key Features

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

The Polarization Maintaining Filter CWDM is characterized with low IL, high return loss, high extinction ratio and excellent environmental stability and reliability. They are ideal for polarization maintaining fiber amplifiers, CWDM network, and high-speed communication system and instrumentation applications.

### Applications

- Channels add / drop
- CWDM network
- Fiber optical amplifier
- CATV Fiber Optic System



## For more Info

### Please contact us at:

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Fax: +86-755-26746512

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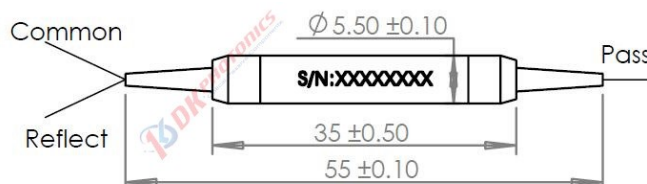
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

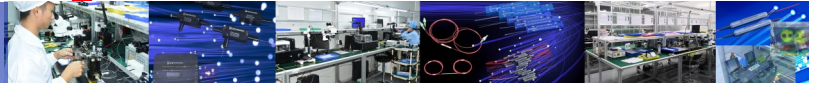
Dahe Road, Longhua Dis.,

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	CWDM
Channel Wavelength	nm	1270, 1290...,1610 etc.
Minimum Channel Spacing	GHz	20nm
Channel Passband (@-0.5dB bandwidth)	nm	> 13
Max. Insertion Loss@23°C	Pass Band	0.8
	Reflection Band	0.5
Min. Isolation@23°C	Pass Band	30
	Reflection Band	13
Extinction Ratio (@ 23°C)	dB	> 20
Directivity	dB	> 50
Return Loss	dB	> 45
Power Handling	W	0.3, 0.7, 1, 5
Fiber Type	-	PM1300-XP/PM1550-XP Panda Fiber
Operating Temperature	°C	0 ~ +70
Storage Temperature	°C	-40 ~ +85
Package Dimensions	mm	Ø5.5 x L35

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 DK Photonics for details.
4. If there is pulse application, please be sure to inform us of pulse energy and peak power.
5. 1XN PM CWDM module is also available, please contact DKP.

### Order information P/N: PMCWDM-①-②-③-④-⑤-⑥

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	⑥
Channel Spacing	Wavelength/ ITU Channel	Power Handling	Pigtails Diameter	Fiber Length	Connector
C: CWDM	CWDM: 1270: 1270nm 1290: 1290nm ... 1590: 1590nm 1610: 1610nm	S:<0.3W L:<0.7W 1:1W 2:2W 5:5W	25:250µm bare fiber 90:900µm Loose Tube XX: Others	05:0.5m 10:1.0m 15:1.5m XX: Others	00: None FP: FC/PC FA: FC/APC SP: SC/PC LP: LC/PC LA: LC/APC XX: Others

**Part Number Example:** PMCWDM-1550-S-90-10-FA

**Description:** 1550nm Polarization Maintaining CWDM, reflection wavelength 1470~1610nm, with 0.9mm OD loose tube, 1.0m fiber length, and FC/APC connectors at all ports.

### Ordering Information for Custom Parts

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