



1X2 Polarization Maintaining DWDM

Key Features

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

The Polarization Maintaining Filter DWDM 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, DWDM network, and high-speed communication system and instrumentation applications.

Applications

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



For more Info

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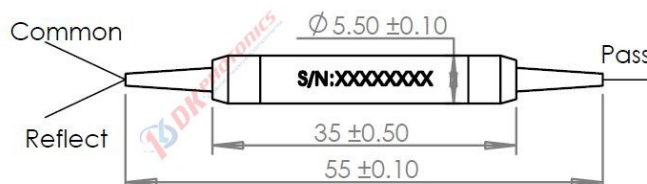
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

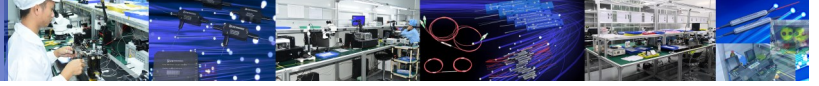
Dahe Road, Longhua Dis.,

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	50G	100G	200G
Channel Wavelength	nm	1550.12	1529.55~1561.42 (ITU C20~ C60)	
Minimum Channel Spacing	GHz	50	100	200
Channel Passband (@-0.5dB bandwidth)	nm	> 0.2	> 0.4	> 0.8
Max. Insertion Loss@23°C	Pass Band	dB	1.0	0.8
	Reflection Band	dB	0.7	0.5
Min. Isolation@23°C	Pass Band	dB		25
	Reflection Band	dB		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	-		PM1550-XP Panda Fiber	
Operating Temperature	°C		0 ~ +70	
Storage Temperature	°C		-40 ~ +85	
Package Dimensions	mm		Ø5.5 x L35	

- Above specifications are for device without connector, and the PM WDM device is both axis working. All parameters are tested at room temperature.
- 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.
- 1XN PM DWDM module is also available, please contact DKP.

Order information P/N: PMDWDM-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
05:50GHz	C21:1560.61nm	S:<0.3W	25:250µm bare fiber	05:0.5m	00: None
10:100GHz	C23:1558.98nm	L:<0.7W	90:900µm Loose	10:1.0m	FP: FC/PC
20:200GHz	C34:1550.12nm	1:1W	Tube	15:1.5m	FA: FC/APC
		2:2W	XX: Others	XX: Others	SP: SC/PC
		5:5W			LP: LC/PC
					LA: LC/APC
					XX: Others

Part Number Example: PMDWDM-10-C34-S-90-10-FA

Description: 100GHz Polarization Maintaining DWDM, ITU Channel wavelength 1550.12nm, 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.