



## Polarization Maintaining Filter WDM

I&Optics' polarization maintaining filter WDM can divide two different wavelengths into two output ports or multiplex two different wavelengths into one same output port with very low loss. It features low insertion loss, high extinction ratio, high wavelength isolation and flat band property. It can be used in lasers, telecom, sensors, instruments, testing systems and R&D.

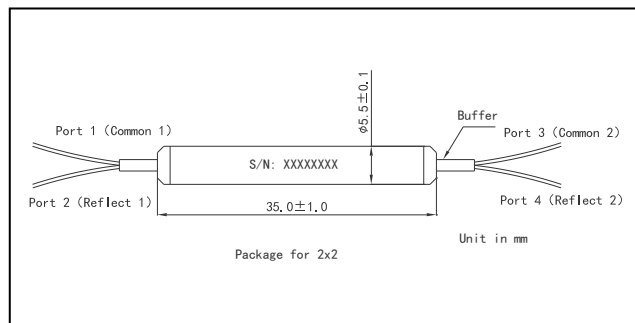
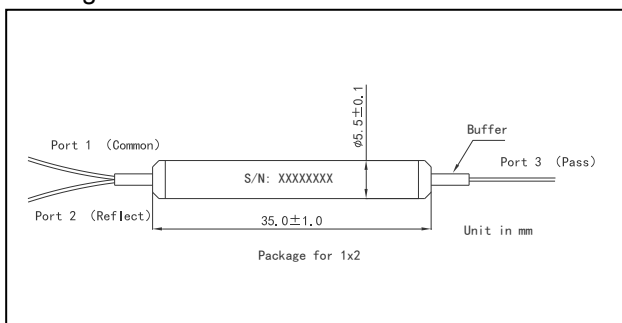
### Specification

Parameter	Test Condition	Unit	Value	
Port Configuration	-	-	1x2	2x2
Pass Band Wavelength(PW)	Port 1 to Port 3	nm	1440~1490 or 1525~1570	
Reflect Band Wavelength(RW)	Port 1 to Port 2, Port 3 to Port 4	nm	1525~1570 or 1440~1490	
Max. Pass Band IL	Port 1 to Port 3	dB	0.50, Typ. 0.35	0.65, Typ. 0.5
Max. Reflect Band IL	Port 1 to Port 2, Port 3 to Port 4	dB	0.4, Typ. 0.3	0.4, Typ. 0.3
Min. Extinction Ratio	at 23°C, only for PM Fiber Port, at Slow or Fast Axis	dB	21, Typ. 23	
Min. Pass Isolation	Port 1 to Port 3, RW	dB	30	
Min. Reflect Isolation	Port 1 to 2, Port 3 to 4, PW	dB	13, Typ. 15	
Max. Thermal Stability	-	dB/°C	0.005	
Min. Directivity	Port 3 to Port 2 (1x2) and Port 2 to Port 3/4 (2x2)	dB	50	
Min. Return Loss	-	dB	50	
Max. Power Handling Rate	Continuous Wave, Total Power	mW	500 or Specify	
Fiber Type	-	-	SMF-28e or PM 1550 Panda Fiber or Specify	
Max. Fiber Tensile Load	-	N	5	
Operating Temperature	-	°C	-5 to 70	
Storage Temperature	-	°C	-40 to 85	

Above values are for device without connectors. For device with connectors, IL will be 0.3dB higher, ER will be 2dB lower, and return loss will 5dB lower.

The default alignment of working polarization and connector key is to slow axis of fiber. Special requirement please call.

### Package Dimensions



### Ordering Informations

#### PMFWDM-①-②-③-④-⑤-⑥

① - Pass / Reflect Wavelength

4855 - 1440~1490nm Pass/1525~1570nm Reflect

5548 - 1525~1570nm Pass/1440~1490nm Reflect

SSSS - Specify

② - Port Configuration

1 - 1x2

2 - 2x2

③ - Fiber Type on Port 2/4

1 - SMF-28e Fiber

2 - PM 1550 Panda Fiber

④ - Connector Type on port 1/2/3/4

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

⑤ - Fiber Jacket on Port 1/2/3/4

B - Bare Fiber

L - 900um Loose Tube

⑥ - Fiber Length

0.8 - 0.8m