



Polarization Maintaining Filter WDM

I&Optics' polarization maintaining filter WDM can divide two different wavelngths 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.

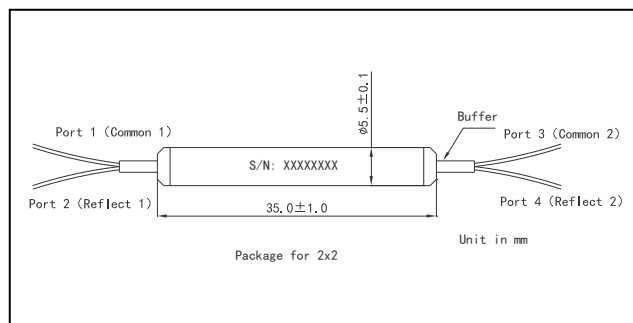
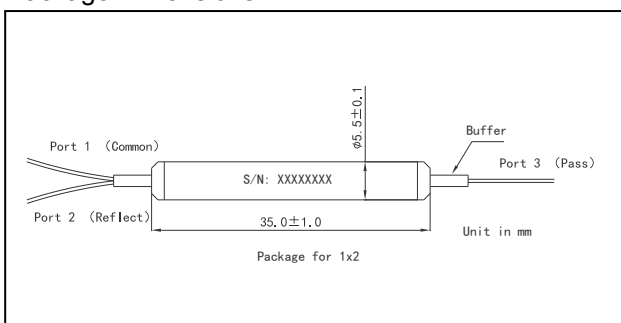
Specification

| Parameter | Test Condition | Unit | Value | |
|-----------------------------|---|-------|---|---------------|
| Port Configuration | - | - | 1x2 | 2x2 |
| Pass Band Wavelength(PW) | Port 1 to Port 3 | nm | 1570+/-20 or 2000+/-50 | |
| Reflect Band Wavelength(RW) | Port 1 to Port 2, Port 3 to Port 4 | nm | 2000+/-50 or 1570+/-20 | |
| Max. Pass Band IL | Port 1 to Port 3 | dB | 0.80, Typ. 0.65 | 1.0, Typ. 0.8 |
| Max. Reflect Band IL | Port 1 to Port 2, Port 3 to Port 4 | dB | 0.7, Typ. 0.5 | 0.7, Typ. 0.5 |
| 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 | 25, Typ. 30 | |
| Min. Reflect Isolation | Port 1 to 2, Port 3 to 4, PW | dB | 13, Typ. 15 | |
| Max. Thermal Stabliblity | - | 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

5720 - 1570nm Pass/2000nm Reflect

2057 - 2000nm Pass/1570nm 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