

## Polarization Maintaining Filter Wavelength Division Multiplexer (PMFWDM Series)

### Description

Rev 11

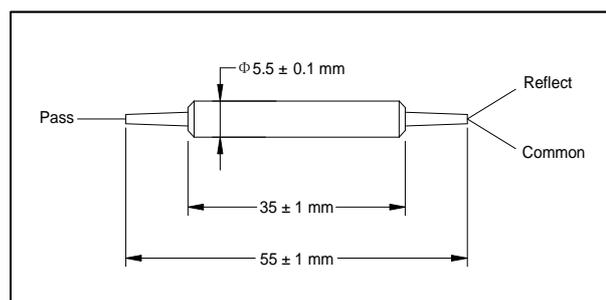
The PM FWDM series provides wavelength division multiplexing while maintaining signal polarization. The components are based on environmentally stable thin film filter technology and are characterized with high extinction ratio, low insertion loss, and high return loss. They are ideal for high speed WDM network systems.

### Specifications

| Parameter                            | Unit                | Value                     |                           |                           |
|--------------------------------------|---------------------|---------------------------|---------------------------|---------------------------|
| Wavelength Range                     | nm                  | 1270 - 1350 (1530 - 1600) | 1450 - 1490 (1530 - 1600) | 1500 - 1520 (1530 - 1570) |
| Typ. Insertion Loss                  | dB                  | 0.4                       | 0.4                       | 0.5                       |
| Pass Band                            | Max. Insertion Loss | dB                        | 0.6                       | 0.7                       |
|                                      | Typ. Isolation      | dB                        | 30                        | 30                        |
|                                      | Min. Isolation      | dB                        | 25                        | 25                        |
| Min. Extinction Ratio                | dB                  | 20                        |                           |                           |
| Wavelength Range                     | nm                  | 1530 - 1600 (1270 - 1350) | 1530 - 1600 (1450 - 1490) | 1530 - 1570 (1500 - 1520) |
| Typ. Insertion Loss                  | dB                  | 0.3                       |                           |                           |
| Reflection Band                      | Max. Insertion Loss | dB                        | 0.5                       |                           |
|                                      | Typ. Isolation      | dB                        | 15                        |                           |
|                                      | Min. Isolation      | dB                        | 12                        |                           |
| Min. Return Loss                     | dB                  | 50                        |                           |                           |
| Thermal Stability                    | dB/°C               | 0.005                     |                           |                           |
| Fiber Type                           | -                   | PM Panda Fiber            |                           |                           |
| Max. Optical Power (Continuous Wave) | mW                  | 300                       |                           |                           |
| Max. Tensile Load                    | N                   | 5                         |                           |                           |
| Operating Temperature                | °C                  | - 5 to + 70               |                           |                           |
| Storage Temperature                  | °C                  | - 40 to + 85              |                           |                           |

\*IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

### Package Dimensions



### Ordering Information

PMFWDM-①①①①-②-③-④

①①①①: Wavelength

3155 - 1310 Pass/1550 Reflect

5531 - 1310 Reflect/1550 Pass

4855 - 1480 Pass/1550 Reflect

5548 - 1480 Reflect/1550 Pass

5155 - 1510 Pass/1550 Reflect

5551 - 1510 Reflect/1550 Pass

②: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

③: Fiber Jacket

B - 250 μm Panda Fiber

L - 900 μm Loose Tube

S - Specify

④: Fiber Length

Q - 0.75 m

S - Specify