



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

Rev 11

### Description

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

### Key Features

- High Extinction Ratio
- Low Insertion Loss

### Applications

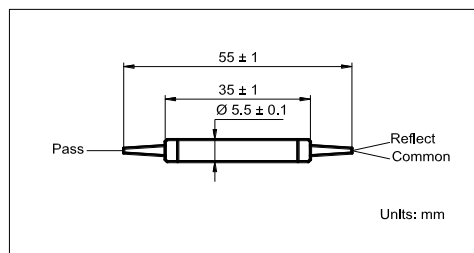
- Access/Enterprise Networks

### Specifications

Parameter	Unit	Value
Wavelength Range	nm	1270 - 1350 (1530 - 1600) 1450 - 1490 (1530 - 1600) 1500 - 1520 (1530 - 1570)
Pass Band	Typ. Insertion Loss	0.4
	Max. Insertion Loss	0.6
	Typ. Isolation	30
	Min. Isolation	25
Min. Extinction Ratio, 23 °C	dB	20
Reflection Band	Wavelength Range	nm 1530 - 1600 (1270 - 1350) 1530 - 1600 (1450 - 1490) 1530 - 1570 (1500 - 1520)
	Typ. Insertion Loss	0.3
	Max. Insertion Loss	0.5
	Typ. Isolation	15
Min. Isolation	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

<sup>1</sup> 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 - 1550 Pass/1310 Reflect  
4855 - 1480 Pass/1550 Reflect  
5548 - 1550 Pass/1480 Reflect  
5155 - 1510 Pass/1550 Reflect  
5551 - 1550 Pass/1510 Reflect

②: Connector Type

1 - FC/UPC  
2 - FC/APC  
3 - SC/UPC  
4 - SC/APC  
N - None  
S - Specify

③: Fiber Jacket

B - 250  $\mu$ m Bare Fiber  
L - 900  $\mu$ m Loose Tube  
S - Specify

④: Fiber Length

Q - 0.75 m  
S - Specify