# 1020-1260/1310~1650nm PM WDM Filter

## Features

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

## Applications

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs

## Specifications

| Parameters | | Unit | Standard | High Isolation |
|---|---|---|---|---|
| Pass Channel Wavelength Range λ1 | | nm | 1310±20, 1530-1580, 1570-1610, 1625±20, 1650±20 | |
| Reflective Channel Wavelength Range λ2 | | nm | 1020±10, 1030±10, 1040±10, 1053±10, 1064±10, 1080±10, 1092±10, 1120±10, 1230±10, 1250±10 | |
| Insertion Loss over λ1 @ Pass Channel | | dB | ≤1.0 | ≤1.2 |
| Insertion Loss overλ2 @ Reflective Channel | | dB | ≤0.8 | |
| Configuration | Y Type | - | 3-port | |
| | X Type | - | 4-port (2x2 WDM) | |
| Isolation over λ1 @ Reflective Channel | | dB | ≥12 | |
| Isolation over λ2 @ Pass Channel | | dB | ≥25 | ≥45 |
| Optical Return Loss | | dB | ≥50 | |
| Extinction Ratio | Standard | dB | ≥20 | |
| | High ER Type | dB | ≥22 | |
| Fiber Type | Signal Port | - | PM1310/1550 Panda Fiber, PM980 Panda Fiber(H), 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (W), 25/250um PMDC Fiber (R) | |
| | Common & 1um Port | | Same Fiber, PM980 Fiber or HI1060 Fiber | |
| Polarization Alignment | | - | Slow Axis | |
| Fiber Tensile Load | | N | 5 | |
| Max. Optical Power (CW) | | mW | 300 | |
| Operating Temperature | | °C | 0~50 | |
| Storage Temperature | | °C | -40~85 | |
| Package Dimension | Stainless Steel Tube (SST) | mm | Ø5.5xL35 | |
| | Metal Box | mm | L120xW12xH10 | |

**Note:** 1. Specifications are for device without connectors; Specifications may change without notice.
2. To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
3. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.
4. High ER type can only work in slow axis at pass port.

## Ordering Information (PN)

**FPWM-NN NN - C (C) (C) C (C) -(C) C C NN - CC/CCC**

| Ref Wavelength | Pass Wavelength | 1um Fiber | Ref. Fiber2 | Comm Fiber | Type | Isolation | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 06=1064nm | 15=1550nm | Y=Same Fiber | X=Same Fiber | Y=Same Fiber | S=Standard | I= High Iso | M=Metal Box | 2=PM1310/1550 Fiber | B= Bare Fiber | 05=0.5m | N=Without Connector |
| 03=1030nm | 59=1590nm | P=PM980 Fiber | P=PM980 Fiber | Blank for PM980 Fiber | H=High ER | Blank for Standard | Blank for SST | H=PM980 Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| 05=1053nm | 13=1310nm | S=HI1060 Fiber | S=HI1060 Fiber | | | | | O=10/125 PMDC Fiber | 2=2mm Cable | 15=1.5m | LC/PC =LC/PC Connector |
| 12=1120nm | 16=1650nm | | Blank for Y Type | | | | | R=25/250 PMDC Fiber | 3=3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |