# 1550/1625/1650nm 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 | 1500-1580 | |
| Reflective Channel Wavelength Range λ2 | | nm | 1625+/-15, 1620-1660 | |
| Insertion Loss | Pass Channel@λ1 | dB | ≤1.0 | |
| | Reflective Channel@λ2 | dB | ≤0.8 | |
| Configuration | Y Type | - | 3-port | |
| | X Type | - | 4-port (2x2 WDM) | |
| Isolation | Pass Channel@λ2 | dB | ≥25 | ≥45 |
| | Reflective Channel@λ1 | dB | ≥12 | |
| Optical Return Loss | | dB | ≥45 | |
| Directivity | | dB | ≥50 | |
| Polarization Dependent Loss | | dB | ≤0.15 | |
| Fiber Type | | - | SMF-28 Fiber, 10/130um DC Fiber (O), 12/130um DC Fiber (T), 20/130um DC Fiber (Q) 25/250um DC Fiber (R), 25/300um DC Fiber (G) | |
| Fiber Tensile Load | | N | 5 | |
| Maximum Optical Power (CW) | | mW | 300 | |
| Operating Temperature | | °C | 0~70 | |
| 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 0.3dB higher, RL is 5dB lower.

3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

4. 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.

## Ordering Information (PN)

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

| Ref Wavelength | Pass Wavelength | Configuration | Isolation | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|---|---|---|---|---|---|---|---|---|
| 16= 1650nm | 15= 1550nm | X=X Type | I= High Iso | M=Metal Box | O=10/130 DC Fiber | B= Bare Fiber | 05=0.5m | N=Without Connector |
| 62=1625nm | 16=1650nm | *Blank* for Y Type | *Blank* for Standard | *Blank* for SST | T=12/130 DC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| 15=1550nm | 62=1625nm | | | | R=25/250 DC Fiber | 2=2mm Cable | 15=1.5m | LC/PC =LC/PC Connector |
| | | | | | *Blank* for SMF-28 Fiber | 3=3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |