

1310/1490/1550nm High Power WDM Filter

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks



SPECIFICATIONS

| Parameters | Unit | Value | |
|---|---------------------------------|--|---|
| Pass Channel Wavelength Range λ_1 | nm | 1310 \pm 30 & 1490 \pm 10 | |
| Reflective Channel Wavelength Range λ_2 | nm | 1530~1570 | |
| Insertion Loss | Pass Channel@ λ_1 | dB | \leq 1.0 |
| | Reflective Channel@ λ_2 | dB | \leq 0.8 |
| Configuration | Y Type | - | 3-port |
| | X Type | - | 4-port (2x2 WDM) |
| Isolation | Pass Channel@ λ_2 | dB | \geq 25 |
| | Reflective Channel@ λ_1 | dB | \geq 12 |
| Optical Return Loss | dB | \geq 45 | |
| Directivity | dB | \geq 50 | |
| Polarization Dependent Loss | dB | \leq 0.1 | |
| Polarization Mode Dispersion | ps | \leq 0.1 | |
| 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) | W | 1, 2, 3, 5, 10, 15, 20 | |
| Operating Temperature | $^{\circ}$ C | 0~70 | |
| Storage Temperature | $^{\circ}$ C | -40~85 | |
| Package Dimension | Stainless Steel Tube (SST) | mm | (\varnothing)5.5x35 (\leq 5W); (\varnothing)6.0x48 (5~10W) |
| | Metal Box | mm | (L)90x(W)18x(H)10 (>10W); (L)120x(W)12x(H)10 (\leq 10W) |

- 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) | - HP NN | - (C) | (C) | C | NN | - CC/CCC |
|----------------|-----------------|------------------|---------------|---------------|------------------------|---------------|--------------|-------------------------|----------|
| Ref Wavelength | Pass Wavelength | Configuration | Optical Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type | |
| 13= 1310nm | 34=1310+1490nm | X=X Type | 1=1W | M=Metal Box | O=10/130 DC Fiber | B= Bare Fiber | 05=0.5m | N=Without Connector | |
| 15= 1550nm | 45=1490+1550nm | Blank for Y Type | 2=2W | Blank for SST | T=12/130 DC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector | |
| 34=1310+1490nm | 15= 1550nm | | 5=5W | or >10W | R=25/250 DC Fiber | 2=2mm Cable | 15=1.5m | LC/PC=LC/PC Connector | |
| 45=1490+1550nm | 13= 1310nm | | 10=10W | | Blank for SMF-28 Fiber | 3=3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector | |