

1500~1600/2030~2070nm WDM/Isolator Hybrid Filter for Pulse

FEATURES

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

APPLICATIONS

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

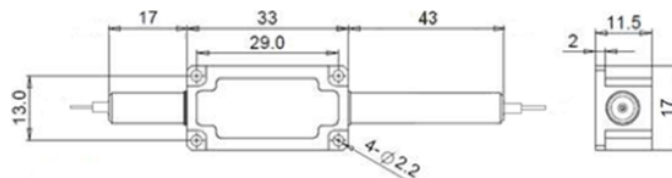


SPECIFICATIONS

| Parameters | Unit | Single Stage | Dual Stage | H Stage |
|---|-----------------------------|--|------------------------|------------|
| Signal Wavelength Range λ_1 | nm | 2030 \pm 20, 2050 \pm 20, 2070 \pm 10 | | |
| Pump Wavelength Range λ_2 | nm | 1530 \pm 20, 1550 \pm 20, 1570 \pm 20, 1590 \pm 20 | | |
| Insertion Loss | Signal Channel@ λ_1 | dB | \leq 1.6 | \leq 2.0 |
| | Pump Channel@ λ_2 | dB | \leq 1.0 | |
| Signal Isolation (Signal Channel@ λ_1) | dB | \geq 10 | \geq 25 | \geq 25 |
| Signal/Pump Wavelength Isolation | dB | \geq 25/12 | | |
| Optical Return Loss | dB | \geq 45 | | |
| PDL | dB | \leq 0.2 | | |
| Fiber Type | | SMF-28 Fiber or SM1950 Fiber (V) | | |
| | | 10/130um DC Fiber (O) or 25/250um DC Fiber (R) | | |
| Fiber Tensile Load | N | 5 | | |
| Max. Average Optical Power | W | 0.3, 0.5, 1, 2 | | 3, 5, 10 |
| Max. Peak Power for pulse | kW | 0.1, 1, 2, 5, 10, 15, 20 | | |
| Operating Temperature | $^{\circ}$ C | 0~50 | | |
| Storage Temperature | $^{\circ}$ C | -40~85 | | |
| Package Dimension | Stainless Steel Tube (SST) | mm | (\varnothing) 5.5x35 | |
| | Metal Box | mm | (L)120x(W)12x(H)10 | |
| | | | See Drawing | |

- 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.

DIMENSION DRAWING (H STAGE)



ORDERING INFORMATION (PN)

| FHWM-NN | NN | - | C | C | -H NN | P NN | -(C) | (C) | C | NN | -CC/CCC |
|-----------|-----------|----------------|------------|---------------|------------|---------------|------------------------|--------------|--------------|-------------------------|---------|
| Pump WL | Signal WL | Stage | Pump Type | Average Power | Peak Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type | |
| 53=1530nm | 23=2030nm | S=Single Stage | F=Forward | 03=300mW | 01=100W | M=Metal Box | V=SM1950 Fiber | B=Bare fiber | 05=0.5m | N=Without Connector | |
| 15=1550nm | 25=2050nm | D=Dual Stage | B=Backward | 1=1W | 1=1kW | Blank for SST | O=10/130 DC Fiber | L=Loose Tube | 10=1.0m | FC/APC=FC/APC Connector | |
| 57=1570nm | 27=2070nm | H=H Stage | | 5=5W | 10=10kW | or >2W | R=25/250 DC Fiber | 2=2mm Cable | 15=1.5m | LC/PC=LC/PC Connector | |
| 59=1590nm | | | | 10=10W | 20=20kW | | Blank for SMF-28 Fiber | 3=3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector | |