

780~850/2030~2070nm WDM/Isolator PM 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

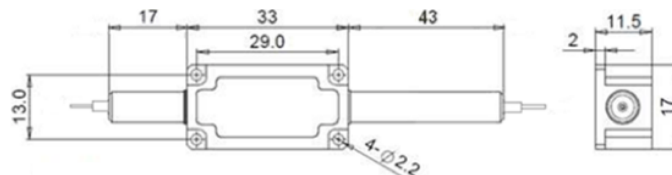


SPECIFICATIONS

| 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 | 780 \pm 10, 793 \pm 10, 808 \pm 10, 830 \pm 10, 850 \pm 10 | | |
| Insertion Loss | Signal Channel@ λ_1 | dB | \leq 1.6 | \leq 2.0 | \leq 2.0 |
| | Pump Channel@ λ_2 | dB | \leq 1.3 | | |
| 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 | | |
| Extinction Ratio | | dB | \geq 18 | | |
| Work Mode | S Type | - | Can only work in Slow Axis | | |
| | F Type | - | Can Work Both in Slow Axis and Fast Axis | | |
| Fiber Type | Common & Signal Port | - | PM1550 Panda Fiber or PM1950 Fiber (V) | | |
| | | | 10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R) | | |
| | Pump Port | | Same Fiber or Corr. SM Fiber, PM850 Fiber, PM780HP Fiber (7) or HI780 Fiber | | |
| 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 | Stainless Steel Tube (SST) | mm | (\varnothing) 5.5x35 | | See Drawing |
| Dimension | Metal Box | mm | (L)120x(W)12x(H)10 | | |

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.7dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 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)

| Pump WL | Signal WL | Stage | Pump Type | Work Mode | Pump Fiber | Average Power | Peak Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|----------|-----------|----------------|------------|-----------|------------------|---------------|------------|---------------|---------------------|---------------|--------------|-------------------------|
| 78-780nm | 23-2030nm | S=Single Stage | F=Forward | S=S Type | Y=Same Fiber | 03=300mW | 01=100W | M=Metal Box | 2= PM1550 Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| 79-793nm | 25-2050nm | D=Dual Stage | B=Backward | F=F Type | P=PM850 Fiber | 1= 1W | 1= 1kW | Blank for SST | V= PM1950 Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| 81-808nm | 27-2070nm | H=H Stage | | | H=HI780 Fiber | 5=5W | 10= 10kW | or >2W | O=10/130 PMDC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| 85-850nm | | | | | S=Corr. SM Fiber | 10= 10W | 20=20kW | | R=25/250 PMDC Fiber | 3= 3mm Cable | 20=2.0m | SC/UFC=SC/UFC Connector |