

915/1550~1590nm WDM/Partial Mirror Hybrid

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 | |
|---------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Signal Wavelength Range λ_1 | nm | 1530~1580, 1570~1610 | |
| Pump Wavelength Range λ_2 | nm | 915 \pm 10 | |
| Excess Loss | Signal Channel@ λ_1 | dB | \leq 1.3 |
| Insertion Loss | Pump Channel@ λ_2 | dB | \leq 1.0 |
| Signal Reflective Ratio (Common \leftrightarrow Pass) | % | 1 \pm 0.6, 2 \pm 0.8, 5 \pm 1, 10, 20, 30, 40, 50, 60, 70, 80, 90 | |
| Wavelength | Signal Channel@ λ_2 | dB | \geq 25 |
| Isolation | Pump Channel@ λ_1 | dB | \geq 12 |
| Optical Return Loss | | dB | \geq 45 |
| PDL | | dB | \leq 0.2 |
| Pump Type | Forward | - | Pump&Signal at same direction |
| | Backward | - | Pump&Signal at reverse direction |
| Fiber Type | Common & Signal Port | - | SMF-28 Fiber or 10/125um DC Fiber (O) |
| | | - | 12/130um DC Fiber (T), 20/130um DC Fiber (Q) |
| | Pump Port | - | 25/250um DC Fiber (R) or 25/300um DC Fiber (G) Same Fiber, HI780 Fiber or HI1060 Fiber |
| Fiber Tensile Load | N | | 5 |
| Maximum Optical Power (CW) | mW | | 300 |
| Operating Temperature | °C | | 0~50 |
| Storage Temperature | °C | | -40~85 |
| Package Dimension | Stainless Steel Tube (SST) | mm | (\varnothing)5.5x40 |
| | 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.
 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)

| FFHP-91NN | - (C) | NN | (C) | -(C) | (C) | C | NN | -CC/CCC |
|-----------------|--------------------|-------------|-----------------------|---------------|------------------------|---------------|--------------|-------------------------|
| Pass Wavelength | Pump Type | Refl. Ratio | Pump Fiber | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
| 15- 1550nm | F= Forward | 01- 1% | Y=Same Fiber | M=Metal Box | O=10/130 DC Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| 59-1590nm | Blank for Backward | 05-5% | H=HI1060 Fiber | Blank for SST | T=12/130 DC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| | | 10-10% | Blank for HI780 Fiber | | R=25/250 DC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| | | 50-50% | | | Blank for SMF-28 Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |