

980/1064nm WDM/Isolator Hybrid for Pulse Power

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 | Single Stage | Dual Stage | |
|-------------------------------------|-----------------------------|--|--------------------|------|
| Signal Wavelength Range λ_1 | nm | 1064+/-10 | | |
| Pump Wavelength Range λ_2 | nm | 980+/-10 | | |
| Insertion Loss@23°C | Signal Channel@ λ_1 | dB | ≤3.0 | ≤4.4 |
| | Pump Channel@ λ_2 | dB | ≤0.8 | |
| Signal Isolation (23°C, All SOP) | dB | ≥28 | ≥45 | |
| Wavelength Isolation | Signal Channel@ λ_2 | dB | ≥25 | |
| | Pump Channel@ λ_1 | dB | ≥12 | |
| Optical Return Loss | dB | ≥45 | | |
| PDL | dB | ≤0.2 | ≤0.25 | |
| Fiber Type | - | HI1060 Fiber or 10/125um SC Fiber (E) | | |
| | | 10/125um DC Fiber (O), 15/130um DC Fiber (W) | | |
| | | 20/130um DC Fiber (Q) or 25/250um DC Fiber (R) | | |
| Fiber Tensile Load | N | 5 | | |
| Max. Signal Average Optical Power | mW | 300 | | |
| Max. Pump Average Optical Power | W | 0.3, 0.5, 1, 2, 3, 5, 10 | | |
| Max. Peak Power for pulse | kW | 0.1, 1, 2, 3, 5, 10, 15, 20 | | |
| Operating Temperature | °C | 0~50 | | |
| Storage Temperature | °C | -40~85 | | |
| Package Dimension | Stainless Steel Tube (SST) | mm | (Ø)5.5x35 | |
| | 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 0.5dB 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)

| FHWM-9806-C | C | -H | NN | P NN | -(NN) | -(C) | (C) | C | NN | - CC/CCC |
|-------------|------------|---------------|------------|-----------------|---------------|------------------------|---------------|--------------|-------------------------|----------|
| Stage | Pump Type | Average Power | Peak Power | Pump Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type | |
| S=Single | F=Forward | 03=300mW | 01=100W | 05=500mW | M=Metal Box | E=10/125 SC Fiber | B= Bare fiber | 05=0.5m | N=Without Connector | |
| D=Dual | B=Backward | | 1=1kW | 1=W | Blank for SST | Q=20/130 DC Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector | |
| | | | 10=10kW | 10=W | | R=25/250 DC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector | |
| | | | 20=20kW | Blank for 300mW | | Blank for HI1060 Fiber | 3= 3mm Cable | 20=2.0m | SC/UFC=SC/UFC Connector | |