

980/1053nm PM WDM/Isolator 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 | Single Stage | Dual Stage | |
|-------------------------------------|-----------------------------|--------------------------|--|------|
| Signal Wavelength Range λ_1 | nm | 1053+/-10 | | |
| Pump Wavelength Range λ_2 | nm | 980+/-10 | | |
| Insertion Loss@23°C | Signal Channel@ λ_1 | dB | ≤3.6 | ≤5.1 |
| | Pump Channel@ λ_2 | dB | ≤0.8 | |
| Signal Isolation (23°C, All SOP) | dB | ≥25 | ≥45 | |
| Wavelength Isolation | Signal Channel@ λ_2 | dB | ≥25 | |
| | Pump Channel@ λ_1 | dB | ≥12 | |
| Optical Return Loss | dB | ≥45 | | |
| Extinction Ratio | dB | ≥18 | | |
| Working Mode | S Type | - | Can only work in Slow Axis | |
| | F Type | - | Can work both in Slow Axis and Fast Axis | |
| Fiber Type | Common and Signal Port | - | PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L) 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R) | |
| | Pump Port (980nm) | - | Same Fiber, Corr. SM Fiber, PM980 Fiber or HI1060 Fiber | |
| Fiber Tensile Load | N | 5 | | |
| Max. Signal Optical Power (CW) | mW | 200 | | |
| Max. Pump Optical Power (CW) | W | 0.3, 0.5, 1, 2, 3, 5, 10 | | |
| 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, ER is 2dB Lower, Connector key is aligned to slow axis.
 3. 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)

| FPHW-9805-C | C | C | C | - (NN) | -(C) | C | C | NN | -CC/CCC |
|-------------|------------|-----------|------------------|-----------------|---------------|---------------------|---------------|--------------|-------------------------|
| Stage | Pump Type | Work Mode | Pump Fiber | Pump Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
| S=Single | F=Forward | S=S Type | Y=Same Fiber | 05=500mW | M=Metal Box | 2=PM980Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| D=Dual | B=Backward | F=F Type | P=PM980 Fiber | 1=W | Blank for SST | E=PM1060L Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| | | | H=HI1060 Fiber | 10=W | | Q=20/130 PMDC Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| | | | S=Corr. SM Fiber | Blank for 300mW | | R=25/250 PMDC Fiber | 3= 3mm Cable | 20=2.0m | SC/UFC=SC/UFC Connector |

