

915/1053nm WDM/Isolator/Tap PM Hybrid

FEATURES

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

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks

SPECIFICATIONS

| Parameters | | Unit | Single Stage | Dual Stage |
|-------------------------------------|-----------------------------|------|---|------------|
| Signal Wavelength Range λ_1 | | nm | 1053+/-10 | |
| Pump Wavelength Range λ_2 | | nm | 915+/-10 | |
| Excess Loss@23°C | Signal Channel@ λ_1 | dB | ≤3.6 | ≤5.1 |
| Insertion Loss@23°C | Pump Channel@ λ_2 | dB | ≤1.0 | |
| Signal Tap Ratio | | % | 1+/-0.5%, 2+/-0.7%, 5+/-1.0%, 10%, 20%, 30%, 50% | |
| 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 | |
| Pump Direction | S Type | - | Forward Pump, Only Slow Axis Working | |
| | F Type | - | Forward Pump, Both Axis Working | |
| | B Type | - | Backward Pump, Only Slow Axis Working | |
| Fiber Type | Common and Signal Port | - | PM850 Fiber, PM980 Fiber or PM1060L Fiber (E) | |
| | | - | 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W) | |
| | | - | 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R) | |
| | Pump Port (915nm) | - | Same Fiber, Corr. SM Fiber, PM850 Fiber, HI780 Fiber, PM980 Fiber (M) or HI1060 Fiber (X) | |
| | Tap Port | - | Same Fiber or Corr. SM 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)5.5x40 | |
| | Metal Box | mm | (L)120x(W)12x(H)10 | |

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

FPHT-9105 -C C NN - C C - (NN) - (C) C C NN -CC/CCC

| Stage | Pump Type | Tap Ratio | Pump Fiber | Tap Port Fiber | Pump Power | Package | Fiber Type | Fiber Sleeve | Fiber Length | Connector Type |
|----------|-----------|-----------|------------------|------------------|-----------------|---------------|---------------------|---------------|--------------|-------------------------|
| S=Single | S= S Type | 01= 1% | P=PM850 Fiber | P=Same Fiber | 05=500mW | M=Metal Box | 2=PM850Fiber | B= Bare fiber | 05=0.5m | N=Without Connector |
| D=Dual | F= F Type | 05=5% | Y=Same Fiber | S=Corr. SM Fiber | 1=W | Blank for SST | H=PM980 Fiber | L= Loose Tube | 10=1.0m | FC/APC=FC/APC Connector |
| | B= B Type | 10=10% | S=Corr. SM Fiber | | 10=W | | E=PM1060L Fiber | 2= 2mm Cable | 15=1.5m | LC/PC=LC/PC Connector |
| | | 50=50% | H=HI780 Fiber | | Blank for 300mW | | R=25/250 PMDC Fiber | 3= 3mm Cable | 20=2.0m | SC/UPC=SC/UPC Connector |

