

## 915/1070nm WDM/Isolator/Tap Hybrid for Pulse Power

### 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 $\lambda_1$ |                             | nm   | 1070+/-10  |            |
| Pump Wavelength Range $\lambda_2$   |                             | nm   | 915+/-10   |            |
| Excess Loss@23°C                    | Signal Channel@ $\lambda_1$ | dB   | ≤2.7   | ≤4.2       |
| Insertion Loss@23°C                 | Pump Channel@ $\lambda_2$   | 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   | ≥22  | ≥40        |
| Wavelength Isolation                | Signal Channel@ $\lambda_2$ | dB   | ≥25  |            |
|                                     | Pump Channel@ $\lambda_1$   | dB   | ≥12  |            |
| Optical Return Loss                 |                             | dB   | ≥45  |            |
| PDL                                 |                             | dB   | ≤0.3   |            |
| Pump Direction                      |                             | -    | Forward Pump   |            |
| Fiber Type                          | Common, Signal & Tap Port   | -    | HI780 Fiber, HI1060 Fiber or 10/125um SC Fiber (E)<br>10/125um DC Fiber (O) or 15/130um DC Fiber (W)<br>20/130um DC Fiber (Q) or 25/250um DC Fiber (R) |            |
|                                     | Pump Port                   | -    | Same Fiber, HI780 Fiber or HI1060 Fiber  |            |
| Fiber Tensile Load                  |                             | N    | 5  |            |
| Max. Signal Average Power           |                             | mW   | 300  |            |
| Max. Pump Average 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)5.5x40  |            |
|                                     | 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.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - 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)

FHWT-9107-**C NN (C) -H NN P NN -(NN) -(C) (C) C NN -CC/CCC**

| Stage     | Tap Ratio | Pump Fiber           | Average Power | Peak Power | Pump Power      | Package       | Fiber Type            | Fiber Sleeve  | Fiber Length | Connector Type          |
|-----------|-----------|----------------------|---------------|------------|-----------------|---------------|-----------------------|---------------|--------------|-------------------------|
| S= Single | 01= 1%    | H= HI780 Fiber       | 03=300mW      | 01=100W    | 05=500mW        | M= Metal Box  | H= HI1060 Fiber       | B= Bare fiber | 05=0.5m      | N= Without Connector    |
| D= Dual   | 05=5%     | Blank for Same Fiber |               | 1= 1kW     | 1=W             | Blank for SST | E= 10/125 SC Fiber    | L= Loose Tube | 10=1.0m      | FC/APC=FC/APC Connector |
|           | 10=10%    |                      |               | 5= 5kW     | 10=W            |               | R= 25/250 DC Fiber    | 2= 2mm Cable  | 15=1.5m      | LC/PC=LC/PC Connector   |
|           | 50=50%    |                      |               | 10=10kW    | Blank for 300mW |               | Blank for HI780 Fiber | 3= 3mm Cable  | 20=2.0m      | SC/UPC=SC/UPC Connector |

