

## 1064 980nm High Power SM Isolator WDM Hybrid

1064 980nm High Power SM Isolator WDM Hybrid is a fiber passive component which integrated with the function of WDM and fiber isolator, it can be used for combine signal wavelength and pump wavelength with a high isolation to avoid the backward wavelength, It's widely used in Fiber Laser and Fiber Amplifier application, higher power type is available upon request.

### Application:

Fiber Laser  
Fiber Amplifier  
Testing System  
Lab And Research

### Features:

Compact Package  
High Isolation  
Low Insertion Loss  
High Reliability



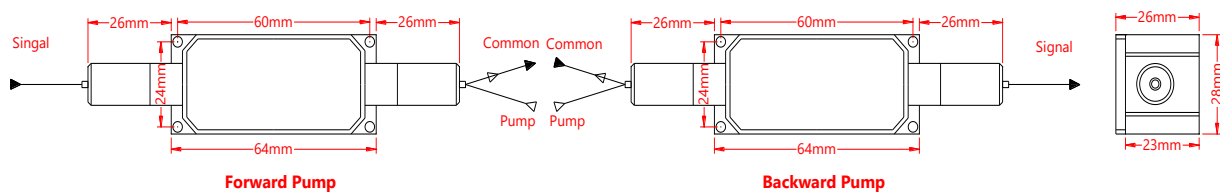
### Specification:

| Parameter                               | Symbol    | Value                              | Unit |
|-----------------------------------------|-----------|------------------------------------|------|
| Signal Wavelength                       | $\lambda$ | 1064 (1020~1100)                   | nm   |
| Pump Wavelength                         | $\lambda$ | 980 (970-990)                      | nm   |
| Typ. Peak Isolation (Signal Reflection) | Iso       | 32                                 | dB   |
| Min. Isolation (Signal Reflection)      | Iso       | 25                                 | dB   |
| Max. insertion Loss for Signal          | IL        | 1.4                                | dB   |
| Min. Isolation (Common → Signal @Pump)  | Iso       | 30                                 | dB   |
| Min. Isolation (Pump → Common @Signal)  | Iso       | 15                                 | dB   |
| Max. insertion Loss for Pump            | IL        | 0.6                                | dB   |
| Max. Polarization Dependent Loss        | PDL       | 0.15                               | dB   |
| Max. Wavelength Dependent Loss          | WDL       | 0.3                                | dB   |
| Min. Return Loss                        | RL        | 50                                 | dB   |
| Min. Directivity                        |           | 50                                 | dB   |
| Max. Optical Power (CW)                 | P         | 0.5, 1, 3, 5, 10, 20 or customized | W    |
| Max. Peak Power                         | P         | 5, 10 or customized                | KW   |
| Max. Tensile Load                       |           | 5                                  | N    |
| Fiber Type                              |           | HI 1060                            | -    |
| Operating Temperature                   | T         | 10~50                              | °C   |
| Storage Temperature                     | T         | 0~60                               | °C   |
| Package Dimension                       |           | 64x28x26                           | mm   |

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower. Connectors only 1W CW guarantee.

### Drawing:



### Ordering Information (Part Number):

| WWW                      | P            | HH             | FF                      | J                    | LL           | CC           |
|--------------------------|--------------|----------------|-------------------------|----------------------|--------------|--------------|
| Wavelength (Signal/Pump) | Pump Type    | Handling Power | Fiber Type on Pump Port | Fiber Jacket         | Fiber Length | Connector    |
| 3098 - 1030/980nm        | F - Forward  | Z5 - 0.5W      | H1 - HI 1060            | B - 250um Bare Fiber | 05 - 0.5m    | NE - None    |
| 4098 - 1040/980nm        | B - Backward | 01 - 1W        | SS - Specify            | 9 - 900um Loose Tube | 10 - 1.0m    | FA - FC/APC  |
| 5098 - 1050/980nm        |              | 03 - 3W        |                         |                      | 15 - 1.5m    | FU - FC/UPC  |
| 6498 - 1064/980nm        |              | 05 - 5W        |                         |                      | 20 - 2.0m    | SS - Specify |
| SSSS - Specify           |              | 10 - 10W       |                         |                      | SS - Specify |              |
|                          |              | 20 - 20W       |                         |                      |              |              |
|                          |              | SS - Specify   |                         |                      |              |              |