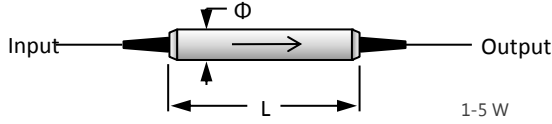


## High Power Polarization Independent Fiber Isolator 1450nm

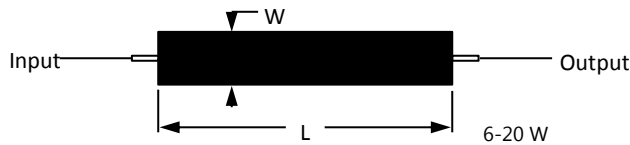
The 1450nm High Power Polarization Independent (Polarization Insensitive) Optical Fiber Isolator is an in-line pigtailed micro-optic component that allows light to be transmitted only in the forward direction while blocking the backward transmission. It features high isolation, low insertion loss and high power handling. The optical isolators are commonly used to protect lasers or amplifiers against back-reflected light.



1-5 W

### Features

- High Isolation
- Low Insertion Loss
- High Power Handling
- High Reliability & Stability



6-20 W

### Applications

- Fiber Amplifier
- Fiber Laser & Sensor
- Lab & Research

### Performance Specification

| Parameter                   | Value                                   |            | Unit |
|-----------------------------|---|------------|------|
|                             | Single Stage                            | Dual Stage |      |
| Stage                       | Single Stage                            | Dual Stage |      |
| Center Wavelength           | 1450, 1480, 1490 or customized          |            | nm   |
| Bandwidth                   | ±20                                     |            | nm   |
| Typ. Insertion Loss at 23°C | 0.35                                    | 0.4        | dB   |
| Max. Insertion Loss at 23°C | 0.5                                     | 0.6        | dB   |
| Typ. Peak Isolation         | 42                                      | 58         | dB   |
| Min. Isolation at 23°C      | 28                                      | 48         | dB   |
| Max. PMD                    | 0.2 (0.05 is available on request)      | 0.05       | ps   |
| Max. PDL at 23°C            | 0.05                                    |            | dB   |
| Min. Return Loss            | 55                                      |            | dB   |
| Max. Optical Power (CW)     | 1, 3, 5, 6, 10, 15, 20                  |            | W    |
| Max. Tensile Load           | 5                                       |            | N    |
| Fiber Type                  | Corning SMF-28e Fiber                   |            |      |
| Operating Temperature       | -5 to +50                               |            | °C   |
| Storage Temperature         | -20 to +75                              |            | °C   |
| Package Dimension           | Φ5.5×L35 for 1-5W, L70×W12×H9 for 6-20W |            | mm   |

### Note

\* For pulse applications, pls discuss with OF-LINK.

\* Connectors only CW 1W handling power guarantee.

### Ordering Information

#### HPII-AAAA-B-C-DD-EE-FF

| AAAA           | B                | C               | DD           | EE           | FF           |
|----------------|------------------|-----------------|--------------|--------------|--------------|
| Wavelength     | Stage            | Fiber Jacket    | Fiber Length | Connector    | Power        |
| 1450 - 1450nm  | S - Single Stage | B - 250um Bare  | 05 - 0.5m    | NE - None    | 01 - 1W      |
| 1480 - 1480nm  | D - Dual Stage   | Fiber           | 08 - 0.8m    | FA - FC/APC  | 03 - 3W      |
| 1490 - 1490nm  |                  | L - 900um Loose | 10 - 1.0m    | FP - FC/PC   | 05 - 5W      |
| SSSS - Specify |                  | Tube            | 15 - 1.5m    | SA - SC/APC  | 10 - 10W     |
|                |                  |                 | SS - Specify | SP - SC/PC   | 15 - 15W     |
|                |                  |                 |              | LA - LC/APC  | 20 - 20W     |
|                |                  |                 |              | LP - LC/PC   | SS - Specify |
|                |                  |                 |              | SS - Specify |              |