



## High Power Polarization Insensitive Isolator (HI Series)

Rev 11B

### Description

The High Power Polarization Insensitive Isolator is characterized with low insertion loss, high isolation, high power handling, high return loss, excellent environmental stability and reliability. The High Power Polarization Insensitive Isolator is ideal for fiber lasers and instrumentation applications.

### Key Features

- Low Insertion Loss
- High Isolation

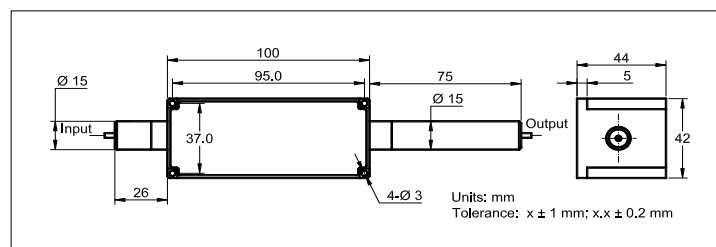
### Applications

- Fiber Lasers
- Fiber Optic Instruments

### Specifications

| Parameter                                                      | Unit | Value                      |
|----------------------------------------------------------------|------|----------------------------|
| Center Wavelength ( $\lambda_c$ )                              | nm   | 1064                       |
| Operating Wavelength Range                                     | nm   | $\lambda_c \pm 10$         |
| Min. Isolation, $\lambda_c$ , @ All Polarization States, 23 °C | dB   | 25                         |
| Typ. Insertion Loss, 23 °C                                     | dB   | 0.5                        |
| Max. Insertion Loss, 23 °C                                     | dB   | 0.8                        |
| Max. Polarization Dependent Loss                               | dB   | 0.2                        |
| Min. Return Loss (Input/Output)                                | dB   | 45/45                      |
| Max. Average Optical Power                                     | W    | 50                         |
| Max. Peak Power (Pulse Width, 10 ns)                           | kW   | 20                         |
| Max. Tensile Load                                              | N    | 5                          |
| Fiber Type                                                     | -    | Specified by ordering info |
| Operating Temperature                                          | °C   | + 10 to + 50               |
| Storage Temperature                                            | °C   | 0 to + 60                  |

### Package Dimensions



### Ordering Information

HI-①①-②②-③-④-⑤-⑥-⑦

①①: Wavelength

06 - 1064 nm

SS - Specify

②②: Handling Power

50 - 50 W

SS - Specify

③: Connector Type

N - None

④: Fiber Jacket

B - Bare Fiber

L - 900  $\mu$ m Loose Tube

S - Specify

⑤: Fiber Length

1 - 1.0 m

S - Specify

⑥: Fiber Type

1 - Corning HI1060 Fiber

2 - Nufern FUD-3584 Fiber

3 - Nufern LMA-GDF-20/130-M

S - Specify

⑦: Power Type

P - Pulsed

C - Continuous Wave