

# 850nm High Power Polarization-Independent Isolator



## ● Product Description

The 850nm high-power polarization-insensitive isolator features low insertion loss, high isolation, high power handling, high return loss, and excellent environmental stability and reliability. It is an ideal choice for fiber lasers and instrument applications.

## ● Part Number

HI-85-0.3-2-L-1-1-C

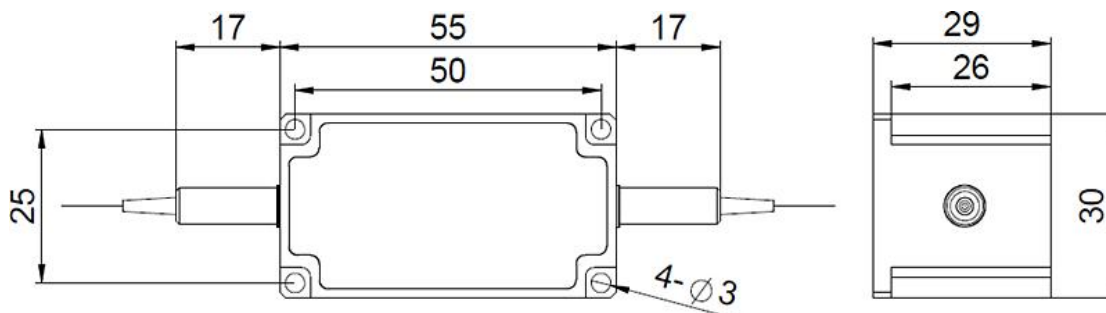
## ● Product features

Low insertion loss, high isolation、 Compact structure、 High peak power

## ● Application area

Fiber sensing、 Ultrashort pulse lasers、 Laser communication

## ● Dimensional Drawing



## Parameters

| Parameter                                                        | Unit | Value              |
|------------------------------------------------------------------|------|--------------------|
| Center Wavelength ( $\lambda_c$ )                                | nm   | 850                |
| Operating Band                                                   | nm   | $\lambda_c \pm 20$ |
| Typical Peak Isolation                                           | dB   | 30                 |
| Minimum Isolation at $\lambda_c$ , 23°C, all polarization states | dB   | 25                 |
| Typical Loss at 23°C                                             | dB   | 1                  |
| Maximum Loss at 23°C                                             | dB   | 1.2                |
| Minimum Return Loss (Input/Output)                               | dB   | 50/50              |
| Maximum Polarization Loss                                        | dB   | 0.2                |
| Maximum Average Power                                            | W    | 1                  |
| Maximum Peak Power (Pulsed Light)                                | kW   | 2                  |
| Maximum Tensile Load                                             | N    | 5                  |
| Fiber Type                                                       |      | HI 780 fiber       |
| Operating Temperature                                            | °C   | 10 to +50          |
| Storage Temperature                                              | °C   | 0 to +60           |

## Ordering info

HI-①①-②②-③-④-⑤-⑥-⑦

|                    |                                                                       |
|--------------------|-----------------------------------------------------------------------|
| ①①: Wavelength     | 85 - 850 nm, SS - Specify                                             |
| ②②: Handling Power | 0.3 - 0.3 W, 01 - 1 W, SS - Specify                                   |
| ③: Connector Type  | 1 - FC/UPC, 2 - FC/APC, 3 - SC/UPC, 4 - SC/APC, N - None, S - Specify |
| 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 - HI 780 fiber, S - Specify                                         |
| ⑦: Power Type      | P - Pulse application, C - Continuous wave                            |