

## High Power Polarization Maintaining Fiber Isolator (HPMI Series)

Rev 11

### Description

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

### Key Features

- Low Insertion Loss
- High Isolation

### Applications

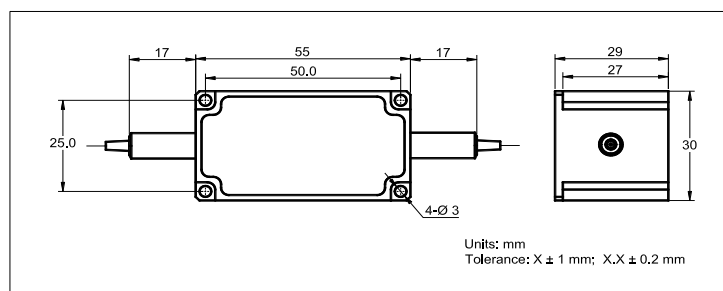
- Fiber Lasers
- Fiber Optic Instruments

### Specifications

| Parameter                               | Unit | Value        |
|-----------------------------------------|------|--------------|
| Operating Wavelength ( $\lambda_{op}$ ) | nm   | 850          |
| Typ. Insertion Loss, 23 °C              | dB   | 1.3          |
| Max. Insertion Loss, 23 °C              | dB   | 1.6          |
| Typ. Peak Isolation                     | dB   | 26           |
| Min. Isolation, $\lambda_c$ , 23 °C     | dB   | 22           |
| Min. Extinction Ratio                   | dB   | 18           |
| Min. Return Loss                        | dB   | 45           |
| Max. Optical Power (Continuous Wave)    | mW   | 500          |
| Fiber Type                              | -    | PM850 Panda  |
| Operating Temperature                   | °C   | + 10 to + 50 |
| Storage Temperature                     | °C   | 0 to + 60    |

<sup>1</sup>IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

### Package Dimensions



### Ordering Information

HPMI-①①①-②-③-④-⑤

|                                                  |                                                                                       |                                                                                            |                                              |                                                                   |
|--------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------|
| ①①①: Wavelength<br>850 - 850 nm<br>SSS - Specify | ②: Connector Type<br>1 - FC/UPC<br>2 - FC/APC<br>3 - SC/UPC<br>4 - SC/APC<br>N - None | ③: Fiber Jacket<br>B - 250 $\mu$ m Bare Fiber<br>L - 900 $\mu$ m Loose Tube<br>S - Specify | ④: Fiber Length<br>Q - 0.75 m<br>S - Specify | ⑤: Working Axis<br>F - Fast Axis Blocked<br>B - Both Axes Working |
|--------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------|