



## High Power Polarization Maintaining Isolator

I&Optics' high power PM fiber isolator can transmit the signal with very low loss, block the reversed light and dissipate the cladding power. It features high handling power, low insertion loss, high extinction ratio and high isolation. It can be used in lasers, telecom, sensors, Instruments, testing systems and R&D.

### Specification

| Parameter                  | Test Condition                                       | Unit | Value                                      |
|----------------------------|--|------|--|
| Port Configuration         | -  | -    | 1x1  |
| Isolator Stage Number      | -  | -    | Broad Band                                 |
| Working Axis of PM Fiber   | -  | -    | Both Axes Working or Fast Axis Blocked     |
| Nominal Center Wavelength  | Port 1 to Port 2                                     | nm   | 633, 780, 850 or Specify                   |
| Operating Wavelength Range | Port 1 to Port 2                                     | nm   | +/-40                                      |
| Max. Insertion Loss        | Port 1 to Port 2, CWL+/-15nm                         | dB   | 1.2, Typ. 0.8                              |
| Min. Reversed Isolation    | at 23°C, Port 2 to Port 1                            | dB   | 26, Peak Typ. 32                           |
| Min. Extinction Ratio      | at 23°C, CWL, at Slow or Fast Axis, Port 1 to Port 2 | dB   | 20, Typ. 22 (B-Type), 25, Typ. 28 (F-Type) |
| Min. Return Loss           | -  | dB   | 50   |
| Max. Power Handling Rate   | CW, Total Power                                      | W    | 0.3, 1, 3 or Specify                       |
| Fiber Type                 | -  | -    | PM Panda Fiber or Specify                  |
| Max. Fiber Tensile Load    | -  | N    | 5  |
| Operating Temperature      | -  | °C   | -5 to 70                                   |
| Storage Temperature        | -  | °C   | -40 to 85                                  |

Above values are for device without connectors. For device with connectors, IL will be 0.5dB higher, ER will be 2dB lower, return loss will be 5dB lower and handling power will be only 0.5W.

The default alignment of working polarization and connector key is to slow axis of fiber. Special requirement please call.

### Package Dimensions

Detailed Informations and Dimensions Please Contact Us. Customized Design Is Available Upon Request.

### Ordering Informations

HPMI-①-②-③-④-⑤-⑥-⑦

|   |   |  |                                |
|---|---|--|--------------------------------|
| ① - Center Wavelength<br>63 - 633nm<br>78 - 780nm<br>85 - 850nm<br>SS - Specify | ③ - Working Axis of Fiber<br>B - Both Axes Working<br>F - Fast Axis Blocked | ⑤ - Connector Type on port 1/2<br>1 - FC/UPC<br>2 - FC/APC<br>3 - SC/UPC<br>4 - SC/APC | ⑦ - Fiber Length<br>0.8 - 0.8m |
| ② - Isolator Type<br>S - Standard<br>B - Broad Band                             | ④ - Handling Power Rate<br>0T - 0.3W<br>01 - 1W<br>03 - 3W<br>SS - Specify  | ⑥ - Fiber Jacket on Port 1/2<br>B - Bare Fiber<br>L - 900um Loose Tube                 |                                |