

## Introduction

Rayzer's High Power Polarization Maintaining Isolator (HPMI) Series product, is in-line pig-tailed micro-optic component allows light to be transmitted only in the forward direction while blocking the backward transmission. It features high isolation, Low PDL and low insertion loss. It is ideal for fiber laser、fiber amplifier、fiber communication and fiber sensor.



## Specification

| Parameters                 | Unit | Values      |
|----------------------------|------|-------------|
| Center Wavelength          | nm   | 1550        |
| Operating Wavelength Range | nm   | ±20         |
| Typ. Peak Isolation        | dB   | 42          |
| Min.Isolation@23℃          | dB   | 28          |
| Typ. Insertion Loss        | dB   | 0.35        |
| Max. Insertion Loss        | dB   | 0.5         |
| Min. Extinction            | dB   | 22          |
| Max. PDL                   | dB   | 0.05        |
| Min. Return Loss           | dB   | 55/50       |
| Handing Power              | W    | 1/3/5/10/20 |
| Peak Power for Pulse       | kW   | 10/20       |
| Max. Tensile Load          | N    | 5           |
| Fiber Type                 | -    | PM1550      |
| Working Temperature        | ℃    | -5 to +75℃  |
| Storage Temperature        | ℃    | -40 to +85℃ |

\*IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

\*Above specifications are for device without connector and may change without notice.

## Ordering Information

HPMI-①-②-③-④-⑤-⑥-⑦-⑧

| ①Central Wavelength | ②Handing Power | ③Fiber Type   | ④Fiber Length | ⑤Fiber Jacket | ⑥Connector | ⑦Working Axis       | ⑧Power Type  |
|---------------------|----------------|---------------|---------------|---------------|------------|---------------------|--------------|
| 1064-1064nm         | 2-2W           | PM980-PM980   | 1-1M          | 0-Bare Fiber  | FU-FC/PC   | F-Fast Axis Blocked | C-Continuous |
| 1550-1550nm         | 5-5W           | PM1550-PM1550 | S-Specify     | 1-900μm Loose | FA-FC/APC  | B-Both Axis Blocked | P-Pulse Wave |
| S-Specify           | 10-10W         | S-Specify     |               | 2-2mm Cable   | S-specify  |                     |              |
|                     | S-Specify      |               |               | 3-3mm Cable   |            |                     |              |