# 1780nm High Power PM Fiber Optic Isolator

1780nm High Power Polarization Maintaining (PM) Optical Isolator is a fiber passive component built with PM fiber, it allows light signal to be deliveried in one forward direction and avoid the back reflection light, it's widely used in amplifier system, fiber optic sensor system to protect the light source and lower down the optical signal noise. If need pulsed type please tell us to confirm

**Application:**

Fiber Optic Amplifier
Fiber Optic Sensor
Fiber Laser
Lab And Research

**Features:**

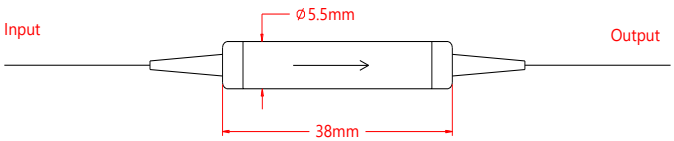
High Power
High Isolation
Low Insertion Loss
High Reliability

**Specification:**

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Center Wavelength | λ | 1780 | nm |
| Bandwidth | BW | ±10 | nm |
| Typ. Insertion Loss | IL | 1.5 | dB |
| Max. Insertion Loss | IL | 1.8 | dB |
| Typ. Peak Isolation | Iso | 32 | dB |
| Min. Isolation | Iso | 28 | dB |
| Min. Extinction Ratio | ER | 18 | dB |
| Min. Return Loss | RL | 50 | dB |
| Max. Optical Power (CW) | P | 1, 3, 5, 10 or specify | W |
| Max. Peak Power | P | 5, 10 or specify | KW |
| Max. Tensil Load | | 5 | N |
| Fiber Type | | PM Panda fiber | - |
| Operating Temperature | T | -5~70 | ℃ |
| Storage Temperature | T | -40~85 | ℃ |
| Package Dimension | | Φ5.5×L38 | mm |

Notice: Above specifications are tested at center wavelength without connector in room temperature @23℃.
For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower.
Slow axis is default aligned to the connector key. Connectors only 1W CW optical power guarantee.

**Drawing:**




**Ordering Information (Part Number):**

**HPMISO-WWWW-A-HH-J-LL-CC**

| WWWW | A | HH | J | LL | CC |
|---|---|---|---|---|---|
| **Wavelength** | **Working Axis** | **Handling Power** | **Fiber Jacket** | **Fiber Length** | **Connector** |
| 1700 - 1700nm | F - Fast Axis Blocked Slow Axis Working | 01 - 1W | B - 250um Bare Fiber | 05 - 0.5m | NE - None |
| 1720 - 1720nm | B - Both Axes Working | 03 - 3W | 9 - 900um Loose Tube | 10 - 1.0m | FA - FC/APC |
| 1750 - 1750nm | | 05 - 5W | 2 - 2.0mm Loose Tube | 15 - 1.5m | FU - FC/UPC |
| 1760 - 1760nm | | SS - Specify | 3 - 3.0mm Loose Tube | 20 - 2.0m | SA - SC/APC |
| 1780 - 1780nm | | | | SS - Specify | SU - SU/APC |
| SSSS - Specify | | | | | LA - LC/APC |
| | | | | | LU - LC/UPC |
| | | | | | SS - Specify |