

## Polarization Maintaining Isolator



### Overview:

The polarization maintaining isolator is characterized with low insertion loss, high isolation, high extinction ratio, high return loss, and excellent environmental stability and reliability. It is ideal for polarization maintaining fiber amplifier, fiber laser, fiber sensor, and instrumentation applications.

### Features:

- \* High isolation
- \* Low insertion loss
- \* High extinction ratio
- \* Excellent environmental stability and reliability

### Applications:

- \* Fiber lasers
- \* Fiber sensor
- \* Polarization maintaining optical system

**Specification:**

| Parameter                    | Single stage              |        | Dual stage |         |
|------------------------------|---------------------------|--------|------------|---------|
|                              | Grade P                   | rade A | Grade P    | Grade A |
| Operating wavelength (nm)    | 1310 ± 15, 1550 ± 15      |        |            |         |
| Extinction ratio(dB)         | ≥20                       | ≥18    | ≥20        | ≥18     |
| Peak isolation(dB)           | 42                        | 40     | 56         | 53      |
| Min. isolation at (dB)(23°C) | 32                        | 30     | 52         | 50      |
| Insertion loss(dB)           | ≤0.4                      | ≤0.6   | ≤0.6       | ≤0.8    |
| Return loss (input/output)   | 55/50                     | 55/50  | 55/50      | 55/50   |
| Pigtail fiber                | PM panda fiber or specify |        |            |         |
| Operating temperature        | 0°C ~ + 70°C              |        |            |         |
| Storage temperature (°C)     | -40°C ~ + 85°C            |        |            |         |
| Max. input power (mw)        | 500                       |        |            |         |
| Dimensions(mm)               | φ5.5×L30                  |        |            |         |

\* Remark: Above specifications are for the devices without connectors.

The PM fiber and the connector key are aligned to the slow axis.