

## Polarization Maintaining Isolator

**Features:**

Low Insertion Loss  
 High Extinction Ratio & High Isolation  
 High stability and reliability

**Application:**

EDFA & Fiber Optical Instrument  
 Fiber Sensor & Fiber Laser

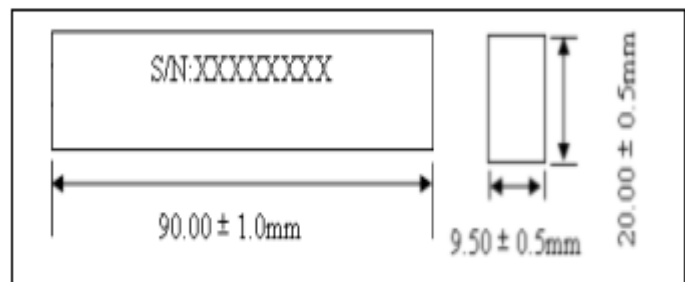
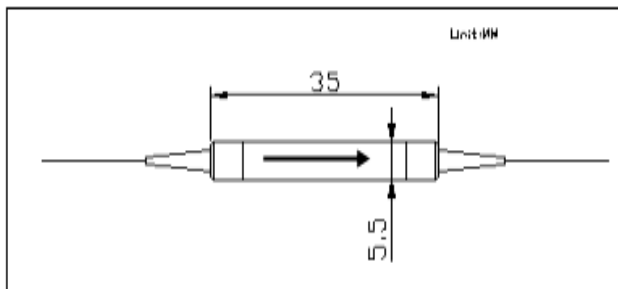
**Specifications:**

| Type<br>Parameter               |                               | Single Grade   |       | Dual Grade |       |
|---------------------------------|-------------------------------|--|-------|------------|-------|
|                                 |                               | P  | A     | P          | A     |
| Operating wavelength (nm)       |                               | 1310,1450,1480, 1550                                   |       |            |       |
| Bandwidth (nm)                  |                               | ±20  |       |            |       |
| Peak isolation (dB)             |                               | 42   | 40    | 58         | 55    |
| Isolation (at 23 °C) (dB)       |                               | ≥28  | ≥26   | ≥48        | ≥45   |
| Typ. Insertion Loss (at 23 °C)  |                               | 0.4  | 0.5   | 0.5        | 0.6   |
| Insertion Loss (at-5 ~ +70 °C)  |                               | ≤0.55  | ≤0.65 | ≤0.65      | ≤0.80 |
| Extinction Ratio (dB)           | Type B (Both of axis working) | ≥20  | ≥18   | ≥20        | ≥18   |
|                                 | Type F (Fast axis blocked)    | ≥22  | ≥20   | ≥22        | ≥20   |
| Return loss (Input/Output) (dB) |                               | ≥55  |       |            |       |
| Power handling (mW)             |                               | ≤500   |       |            |       |
| Fiber Type                      |                               | 1310nm :PM 1310 Panda Fiber;1550nm:PM1550 Panda Fiber; |       |            |       |
| Operating temperature (°C)      |                               | -5~+70   |       |            |       |
| Storage temperature (°C)        |                               | -40 ~ +80  |       |            |       |
| Dimensions (mm)                 |                               | φ5.5×L35 , L90×W20×H9.5                                |       |            |       |

\*Above specifications are for devices without the connectors.

\*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.

\*The PM fiber and the connector key are aligned to the slow axis. And for F type, fast axis is blocked, for type B ; both axis is working

**Package Dimensions:**


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**Ordering Information:**

| PMIS | Wavelength   | Type                           | Grade                  | Axis Alignment                             | Package  | Pigtail Type  | Length  | Connector   |
|------|--|--------------------------------|------------------------|--|--|---|---|---|
|      | 1310=1310nm<br>1450=1450nm<br>1480=1480nm<br>1550=1550nm | S=Single stage<br>D=Dual Stage | P=P Grade<br>A=A Grade | F=Fast Axis Blocked<br>B=Both Axis Working | 0=φ5.5×L35 mm<br>1=90*20*9.5 mm<br>2=Glass tube<br>S=Specify | 1=250um bare fiber<br>2=900um loose tube<br>3=3mm loose tube<br>4=2mm loose tube<br>S=Specify | H=0.5m<br>8=0.8m<br>1=1.0m<br>5=1.5m<br>2=2.0m<br>3=3.0m<br>4=4.0m<br>A=2.5m<br>B=5.0m<br>S=Specify | 0=None<br>1=FC/UPC<br>2=FC/APC<br>3=SC/APC<br>4=SC/UPC<br>5=MU<br>6=LC/UPC<br>7=LC/APC<br>S=Specify |