# 830nm Polarization Maintaining Optical Isolator

## PERFORMANCE SPECIFICATIONS

| Parameter | Specifications |
|---|---|
| Operation Wavelength | 820nm to 840nm |
| Typical Peak Isolation | 25dB |
| Minimum Isolation | 20dB |
| Typical Insertion Loss | 0.8dB |
| Maximum Insertion Loss | 1.2dB |
| Extinction Ratio | 20dB(Typ. 25dB) |
| PMD | 0.2ps |
| Return Loss | ≥ 50dB |
| Optical Power | 600mW |
| Operating Temperature | 0 to + 65°C |
| Storage Temperature | -40 to +85°C |
| Fiber Type | See Order Information |
| Package Dimensions | L52mm x W28mm x H27mm |

## FEATURES

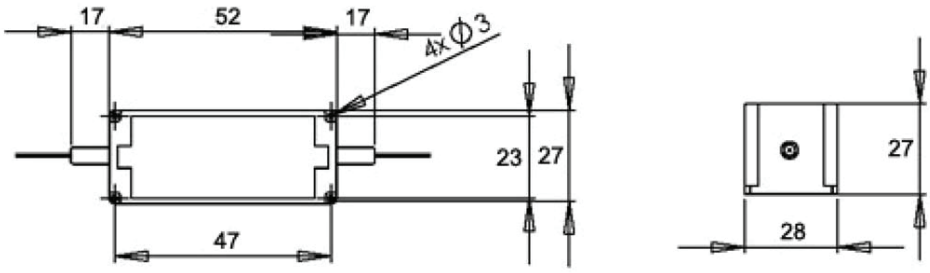
High Isolation
Low Insertion Loss
High Extinction Ratio
High Stability and Reliability
Cost Effective

## APPLICATION

Fiberoptic Amplifiers
Pump Laser Source
Fiberoptic Sensor
Test and Measurement
Instrumentation

Note:
1. The PM fiber and the connector key are aligned to the slow axis.
3. For devices with connectors, insertion loss will be 0.3dB higher, return loss will be 5dB lower, and extinction loss will be 2dB lower.
2. The ER is for fiber </= 0.75 meter. Increase fiber length can decrease the ER.

## MECHANICAL DIMENSIONS




## ORDERING INFORMATION

| PMIS | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Wavelength | Grade | Pigtail Style | Fiber Length | Fiber Type | In/Out Connector | Working axis |
| | 83 = 830nm | P = Grade P | 1 = Bare Fiber<br>2 = 900um Jacket | 1 = 0.25m<br>2 = 0.5m<br>3 = 1.0m<br>4 = Custom Length | 1 = PM850<br>S = Special | 0 = None<br>1 = FC/APC<br>2 = FC/PC<br>3 = SC/APC<br>4 = SC/PC<br>5 = ST<br>6 = LC/UPC<br>7 = LC/APC<br>X=Special | S = Slow axis working<br>B = Both axes working<br>F = Fast axis working |