

## 1310nm PM Optical Isolator

### Features

- Low Insertion Loss
- High Return Loss
- High Extinction Ratio
- High Isolation
- High Stability & Reliability

### Applications

- Communication Systems
- Test Instrument
- Fiber Sensor
- Research

### Specifications

| Parameter  | Unit | Value   |      |      |     |
|--|------|---------|------|------|-----|
|  |      | Single  |      | Dual |     |
| Stage  | -    | P       | A    | P    | A   |
| Grade  | -    |         |      |      |     |
| Center Wavelength  | nm   | 1310    |      |      |     |
| Operating Wavelength Range                                 | nm   | ±20     |      |      |     |
| Typ. Peak Isolation at 23°C                                | dB   | 42      | 40   | 58   | 55  |
| Min. Isolation at 23°C                                     | dB   | 28      | 26   | 48   | 45  |
| Typ. Insertion Loss at 23°C                                | dB   | 0.4     | 0.5  | 0.5  | 0.6 |
| Max. Insertion Loss at 23°C                                | dB   | 0.55    | 0.65 | 0.65 | 0.8 |
| Min. Extinction Ratio at 23°C (only for Both Axis Working) | dB   | 20      | 18   | 20   | 18  |
| Min. Extinction Ratio at 23°C (only for Fast Axis Blocked) | dB   | 25      | 23   | 25   | 23  |
| Min. Return Loss (input/output)                            | dB   | 50/50   |      |      |     |
| Max. Optical Power(CW)                                     | mW   | 500     |      |      |     |
| Max. Tensile Load  | N    | 5       |      |      |     |
| Operating Temperature                                      | °C   | -5~+70  |      |      |     |
| Storage Temperature  | °C   | -40~+85 |      |      |     |

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower.

The default connector key is aligned to slow axis.

### Package Dimensions



### Ordering Information

PMIS-1111-234-555-678-9A

|      |                             |  |
|------|-----------------------------|--|
| 1111 | -Center Wavelength:         | 1310=1310nm.....   |
| 2    | -Grade:                     | P=P grade, A=A grade   |
| 3    | -Stage:                     | S=Single-core stage, D=Dual-core stage                             |
| 4    | -Axis Alignment:            | F=Slow axis working, Fast axis blocked, B=Both of axis working     |
| 555  | -Fiber Type:                | 001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E         |
| 6    | -Package Dimension:         | 0=φ5.5x35mm, S=Specified   |
| 7    | -Pigtail Type:              | 0=250μm bare fiber, 1=900μm loose tube                             |
| 8    | -Fiber Length:              | 0=0.8m, 1=1m   |
| 9    | -Connector Type for Input:  | 0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None |
| A    | -Connector Type for Output: | 0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, 4=LC/UPC, 5=LC/APC, N=None |