



## Polarization Maintaining Fused Wavelength Division Multiplexer (980/1550) (PMWDM Series)

Rev 11G

### Description

The Polarization Maintaining Fused Wavelength Division Multiplexer combine or separate light at different wavelengths. They offer very low insertion loss, high extinction ratio, and excellent environmental stability. These components can be operated on both fast and slow axis.

### Key Features

- High Extinction Ratio
- Low Insertion Loss
- Excellent Environmental Stability

### Applications

- Fiber Laser
- Fiber Amplifier

### Specifications

| Parameter                            | Unit  | Value          |
|--------------------------------------|-------|----------------|
| Longer Operating Wavelength          | nm    | 1550 ± 20      |
| Max. Insertion Loss <sup>1</sup>     | dB    | 0.7            |
| Min. Isolation <sup>1</sup>          | dB    | 17             |
| Min. Extinction Ratio <sup>2</sup>   | dB    | 20             |
| Shorter Operating Wavelength         | nm    | 980 ± 10       |
| Max. Insertion Loss <sup>1</sup>     | dB    | 0.7            |
| Min. Isolation <sup>1</sup>          | dB    | 17             |
| Thermal Stability                    | dB/°C | ≤ 0.005        |
| Min. Return Loss <sup>3</sup>        | dB    | 55             |
| Min. Directivity                     | dB    | 55             |
| Max. Optical Power (Continuous Wave) | mW    | 300            |
| Fiber Type <sup>4</sup>              | -     | PM Panda Fiber |
| Operating Temperature                | °C    | - 5 to + 70    |
| Storage Temperature                  | °C    | - 40 to + 85   |

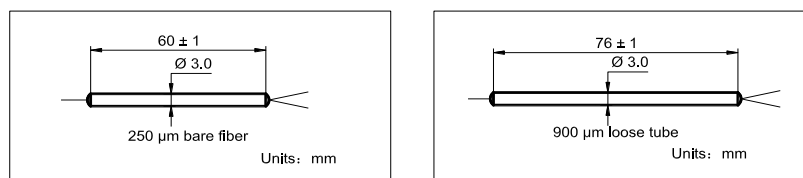
<sup>1</sup>Test at central wavelength only. IL is 0.5 dB higher for each connector added.

<sup>2</sup>ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

<sup>3</sup>RL is 5 dB lower for connector added.

<sup>4</sup>For PM 980 fiber option, the components may be more sensitive since the bending loss of PM 980 fiber is larger at 1550 nm.

### Package Dimensions



### Ordering Information

**PMWDM-①-②②②②②②②②-③-④-⑤-⑥**

①: Configuration

1 - 1 × 2

②②②②②②②②: Wavelength

9801550 - 980 & 1550 nm

③: Connector Type

1 - FC/UPC    4 - SC/APC

2 - FC/APC    N - None

3 - SC/UPC    S - Specify

④: Fiber Jacket  
B - 250 μm Bare Fiber  
L - 900 μm Loose Tube

⑤: Fiber Length  
Q - 0.75 m  
S - Specify

⑥: Fiber Type  
4 - Corning Panda PM 980  
6 - Corning Panda PM 1550