



# 2 μm Fused WDM

(polarization independent and polarization maintain)

## Product Description

The 2μm Fused Wavelength Division Multiplexer combine or separate light at 1570 nm (800 nm) and 2000 nm windows. They offer very low insertion loss and excellent environmental stability.

## Features

- High Power Handling
- Low IL
- High Reliability & Stability
- Cost Effective



## Performance Specifications

| 2um Fused WDM                               |                              | Typical   |          |    | Unit  |
|---------------------------------------------|------------------------------|-----------|----------|----|-------|
| Longer Wavelength                           |                              | 2000 ± 20 |          |    | nm    |
| Insertion Loss <sup>1</sup>                 |                              | 0.7       |          |    | dB    |
| Isolation <sup>2</sup>                      |                              | 13        |          |    | dB    |
| Extinction Ratio <sup>2</sup>               |                              | 20        |          |    | dB    |
| PDL <sup>3</sup>                            |                              | 0.15      |          |    | dB    |
| Shorter Wavelength                          | 1570 ± 20                    | 800 ± 20  | 650 ± 20 | nm |       |
| Insertion Loss <sup>1</sup>                 | 0.7                          | 0.7       | 1.5      | dB |       |
| Isolation <sup>1</sup>                      | 15                           | 15        | 10       | dB |       |
| Thermal Stability                           | ≤ 0.005 over -5 °C to +70 °C |           |          |    | dB/°C |
| Return Loss                                 | 55                           |           |          |    | dB    |
| Directivity                                 | 55                           |           |          |    | dB    |
| Average Optical Power Handling <sup>4</sup> | 300                          |           |          |    | mW    |
| Fiber Type                                  | SMF-28 / PM 1550 Panda Fiber |           |          |    |       |
| Operating temperature                       | -5 ~ 70                      |           |          |    | °C    |
| Storage temperature                         | -40 ~ 85                     |           |          |    | °C    |

Note:

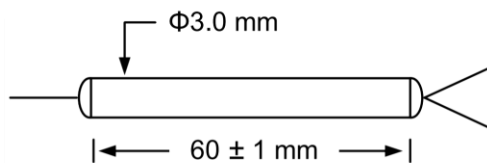
1. Measured without connectors at center wavelength and 23 °C
2. PM version only
3. SM version only
4. Continuous operation.

## Applications

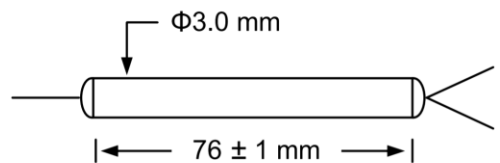
- Laser Pump Source
- Optical Fiber Amplifier
- Laser Manufacturing
- Test and Measurement

## 2 $\mu$ m Fused WDM

### Mechanical Dimensions (mm)



250  $\mu$ m bare fiber



900  $\mu$ m loose tube

\*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

### Ordering Information

| WDM2- | A | <input type="checkbox"/> <input type="checkbox"/>        | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/>             | <input type="checkbox"/>                  | <input type="checkbox"/> | <input type="checkbox"/>                                                             |
|-------|---|----------------------------------------------------------|---------------------------------------------------|--------------------------------------|-------------------------------------------|--------------------------|--------------------------------------------------------------------------------------|
|       |   | Wavelength                                               | Configuration                                     | Fiber Type                           |                                           | Fiber Length             | Connector                                                                            |
|       |   | 1570/2000=12<br>800/2000=82<br>650/2000=62<br>Special=00 | 1x2=12<br>Special =00                             | SMF-28e=1<br>PM1550 =2<br>Special =0 | Bare fiber=1<br>900um tube=2<br>Special=0 | 0.75 M =1<br>Special=0   | None=1<br>FC/PC=2<br>FC/APC=3<br>SC/PC=4<br>SC/APC=5<br>ST/PC=6<br>LC=7<br>Special=0 |

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