

# 1480/1550nm Single-Mode Wavelength Division Multiplexer FC/PC



## ● Product Description

IdealPhotonics' tapered wavelength division multiplexing (WDM) products for optical communication feature low loss, low polarization-dependent loss, a wide operating wavelength and temperature range, and an epoxy-free optical path. This series of products is suitable for use in WDM systems, fiber sensing systems, and fiber optic testing equipment.

## ● Part Number

NIR-WDM-W1415-1-9-SP

## ● Product features

Wide operating wavelength range & temperature range 、 Low insertion loss 、

Low polarization-dependent loss and polarization mode dispersion 、

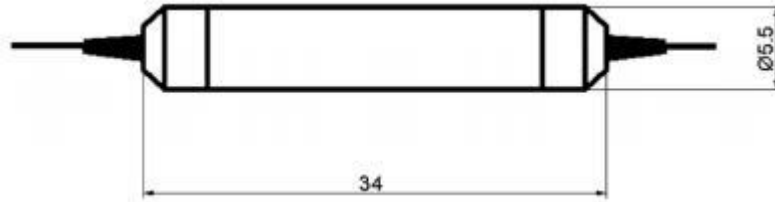
Extremely high reliability and stability

## ● Application area

WDM systems 、 Fiber sensing systems 、 Fiber optic equipment 、 Fiber lasers

## Parameters

### Dimensional Drawing



### Parameters

| Parameter                     | Unit | Value                                    | Remarks                                    |
|-------------------------------|------|--|--|
| Central Wavelength(nm)        | nm   | 980/1550 or 1480/1550                    | Other wavelengths can be customized        |
| Insertion Loss                | dB   | $\leq 0.5$                               | 1550nm,30mw,DFB                            |
| Isolation                     | dB   | $\geq 16$                                | @25° C                                     |
| Operating Bandwidth           | nm   | $\pm 20$                                 | Operating temperature:<br>-40° C to +75° C |
| Polarization-Related Loss     | dB   | $\leq 0.1\text{dB}$                      |  |
| Wavelength-Related Loss       | dB   | $\leq 0.2\text{dB}$                      |  |
| Fiber Type                    | N/A  | SMF-28E+/PM1550 etc.<br>(SM or PM fiber) | Other fiber types available                |
| Polarization Mode Dispersion  | Ps   | $< 0.25$                                 |  |
| Polarization Dispersion       | Ps   | $< 0.05$                                 |  |
| Return Loss<br>(Input/Output) | dB   | $> 55\text{dB}$                          |  |
| Maximum Operating Power       | mW   | 500                                      |  |
| Operating Temperature         | °C   | -5-70°C                                  |  |
| Storage Temperature           | °C   | -40-85°C                                 |  |
| Test Light Source             |      | 1550nm benchtop Light Source             |  |
| Package Size                  | mm   | As shown in the diagram                  |  |

### Notes:

\*. All specifications exclude connectors and are valid only at the specified wavelength, polarization state, and temperature above.

\*\*. Specifications are subject to change without prior notice.

**Ordering info**

NIR-WDM- W□□□□-☆ - △ -XX

W□□□□: Wavelength

9815: 980/ 1550nm

1415: 1480/ 1550nm

☆ : Pigtail Length

05: 0 . 5m

1:1m 10: 10m

△: Loose Tube

B: Bare Fiber

9 : 900um Loose Tube

20: 2mm Loose Tube

30: 2mm Loose Tube

XX: Fiber and Connector Type

SA=SMF-28E+ FC/APC

SP=SMF-28E+ FC/PC