

5nm fused taper ultra-narrowband wavelength division multiplexer 1550/1555nm bandwidth $\pm 0.5\text{nm}$



● **Product Description**

Fused taper ultra-narrowband wavelength division multiplexer refers to a one-time taper wavelength division multiplexer with a wavelength interval of 5nm. Fused taper wavelength division multiplexing refers to a technology that transmits multiple wavelength optical signals in one optical fiber at the same time. With the development of optical communication systems, it is widely used in optical fiber sensors, optical fiber lasers, optical fiber amplifiers (EDFA), high-speed multi-wavelength transmission, etc. In the wavelength range, an optical communication system with multiple wavelengths on a pair of optical fibers or a single optical fiber is required, where the interval between each

wavelength is 5nm. In this case, the wavelength division multiplexing with a smaller channel interval in the same window is called ultra-narrowband wavelength division multiplexing SUNBWDM, which has low loss, good stable performance, simple maintenance and convenient power supply.

● Part Number

SUNBWDM- W155055 05-80-XX

● Product features

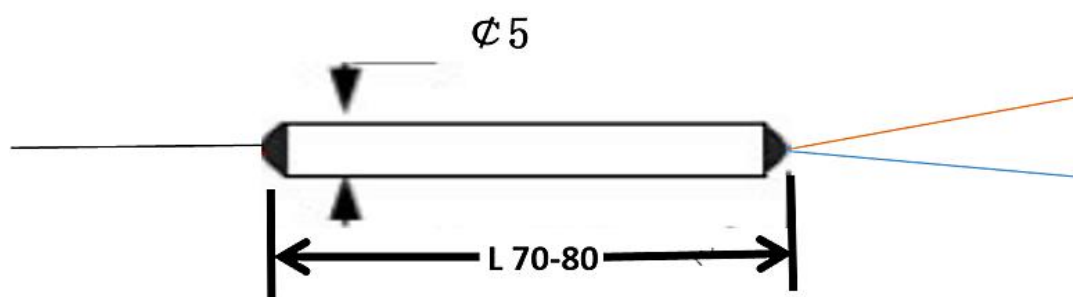
Small size 、 Low insertion loss 、 One-time melting and taper, easy maintenance、 Good stability

● Application area

Fiber amplifier 、 Fiber laser Network signal CATV, HDTV High-speed 、 multi-wavelength transmission systeml

Parameters

Dimensional Drawing



Structure	/	1×2/2×2
Name	/	Ultra-narrowband WDM
Operating wavelength	nm	1475/1480 or (customer-defined wavelength)
Bandwidth range	nm	±0.50
Insertion loss	dB	≤0.70dB (typical value ≤0.50dB)
Isolation	dB	≤11.0dB (typical value ≥13.0dB)
Polarization-dependent loss	dB	≤0.25
Return loss	dB	≥50.00.
Directivity	dB	≥55.00
Carrying power	mw	500

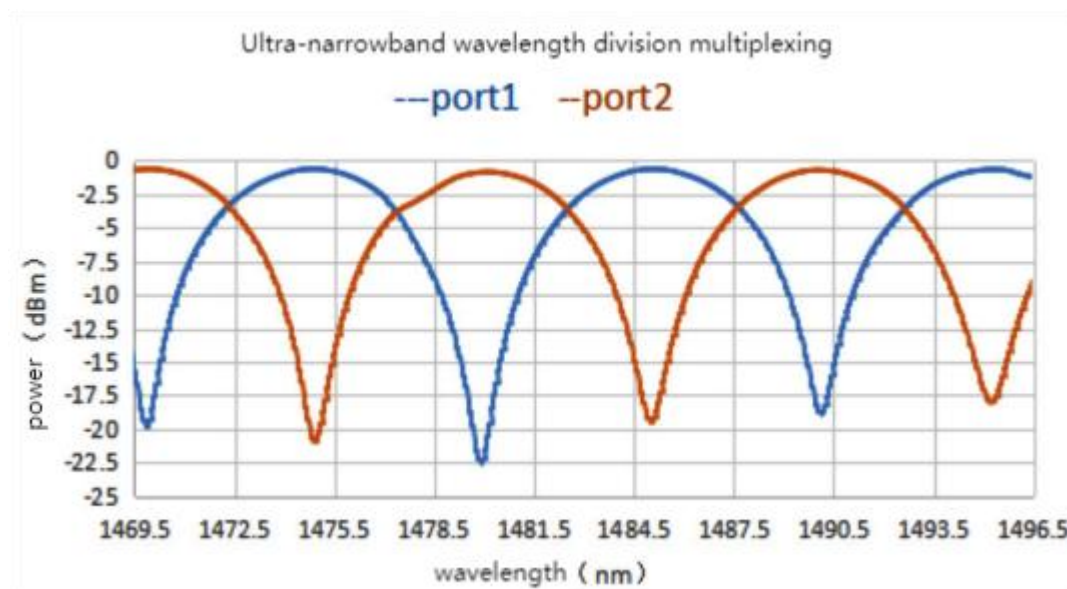
Operating temperature	°C	-5-75
Storage temperature	°C	-40-85
Fiber length	m	1.00±0.10 or customer-specified
Fiber type	/	Corning Fiber SMF-28
Packaging fiber structure	um	250/900
Packaging	mm	Φ 5×70/Φ 5×80

Note: *. The working wavelength and wavelength interval can be customized.

**. All indicators are without connectors and are only valid at the above wavelengths, polarization states and temperatures.

***. The indicators are subject to change without prior notice.

UNBWDM spectrum scanning diagram



Ordering Information

SUNBWM- W□□□□ -☆- △-XX

W□□□□: Wavelength

155055: 1550/1555nm

145560: 1455/1460nm

☆: 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= FC/APC

SP= FC/PC

LA= LC/APC

LP= LC/PC