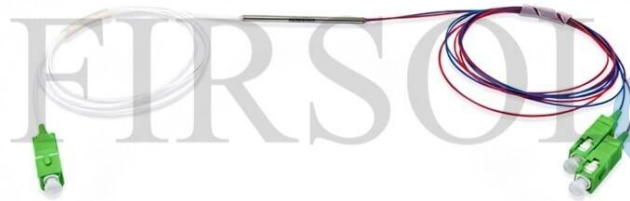


Single Mode Fused WDM



Description

Fused WDM is a compact and reliable wavelength division multiplexer / demultiplexer based on fused biconical taper (FBT) technology. It is designed to combine or separate two single-mode wavelengths over a wide spectral range from 450 nm to 2000 nm, covering visible, near-infrared, and infrared applications.

Features

- Low Insertion Loss
- Compact Structure
- High Power Handling
- High Stability and Reliability

Applications

- Fiber Laser
- Fiber Optic Amplifier
- Fiber Optic Sensing
- Underwater Communication

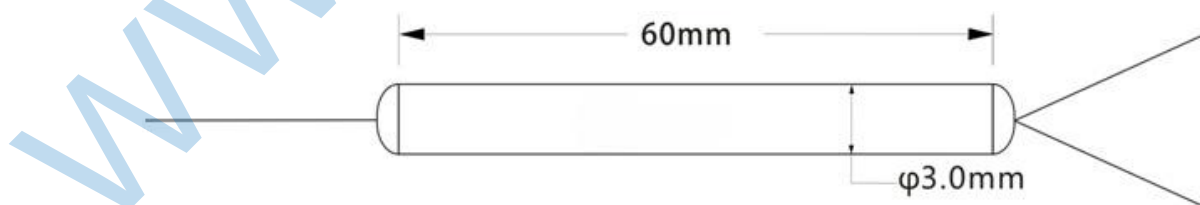
Specifications

Series 1: 450–850 nm

Parameter	Unit	Value					
Center Wavelength	nm	450/532	450/635	532/635	532/780	635/780	635/850
Operating Wavelength Range	nm	±5	±5	±5	±5	±5	±5
Isolation	dB	≥13	≥13	≥15	≥15	≥20	≥20
Insertion Loss	dB	≤1.5	≤1.5	≤1.5	≤1.0	≤0.8	≤0.8
Return Loss	dB	≥55					
Polarization Dependent Loss	dB	≤0.2					
Max Optical Power (CW)	W	0.1	0.1	0.25	0.25	0.5	0.5
Fiber Type	-	460-HP			630-HP		
Tensile Load	N	5					
Package Dimensions	mm	Φ3 x L60 (Bare Fiber)/Φ3 x L70 (Loose Tube)					
Operating Temperature	°C	-40 to +85					
Storage Temperature	°C	-40 to +85					

Notes: Tested at 25 °C. Data exclude connectors; adding connectors increases insertion loss by 1.5 dB and reduces return loss by 5 dB.

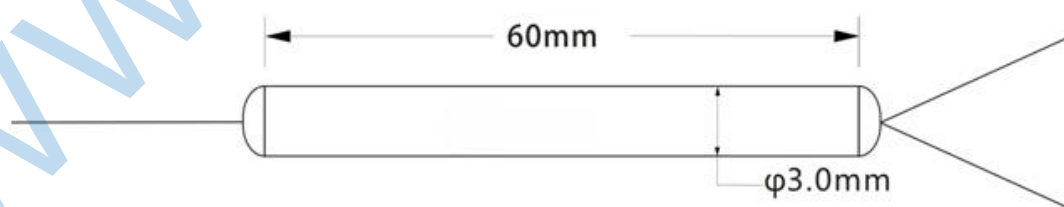
Product Dimensions



Series 2: 980–2000 nm

Parameter	Unit	Value							
Center Wavelength	nm	980/1030	980/1064	980/1310	980/1550	1064/1310	1064/1550	1310/1550	1570/2000
Operating Wavelength Range	nm	±3	±5	±10	±15	±15	±15	±15	±15
Isolation	dB	≥12	≥15	≥20	≥20	≥20	≥20	≥17	≥18
Insertion Loss	dB	≤0.5	≤0.4	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.6
Return Loss	dB	≥55							
Polarization Dependent Loss	dB	≤0.1							≤0.2
Max Optical Power (CW)	W	0.5/1/5/10							
Fiber Type	-	Hi1060						SMF-28e	
Tensile Load	N	5							
Package Dimensions	mm	Φ3 x L54 (Bare Fiber)/Φ3 x L60 (Loose Tube)							
Operating Temperature	°C	-40 to +85							
Storage Temperature	°C	-40 to +85							

Notes: Tested at 25 °C. Data exclude connectors; adding connectors increases insertion loss by 0.3 dB and reduces return loss by 5 dB.

Product Dimensions

Ordering Information

					
Center Wavelength	Max Optical Power (CW)	Fiber Type	Pigtail Length	Pigtail Diameter	Connector
450/532nm	0.1W	460-HP	0.5m	250μm Bare Fiber	None
450/635nm	0.25W	630-HP	1.0m	900μm Loose Tube	LC/UPC
532/635nm	0.5W	Hi1060	1.5m		LC/APC
532/780nm	1W	SMF-28e	2.0m		SC/UPC
635/780nm	5W				SC/APC
635/850nm	10W				FC/UPC
980/1030nm					FC/APC
980/1064nm					ST/UPC
980/1310nm					ST/APC
980/1550nm					
1064/1310nm					
1064/1550nm					
1310/1550nm					
1570/2000nm					