

# Single Mode Fiber Fused WDM

## Product Description

The FC Series single mode fiber fused WDM is based on Agiltron's advanced fused biconical taper technology and compact packaging structure. It features low insertion loss, high isolation, flat passband, high reliability and stability. The device is ideal for 980/1310/1480 nm pump and 1550 nm signal wavelength division multiplexing in fiber optic amplifier systems.



## Features

- Ultra Low Insertion Loss
- High Isolation
- Low PDL
- Highly Stable & Reliable
- Ultra Low Cost

## Performance Specifications

FC Series	Performance			Unit
Operation Wavelength	970 ~ 990	1290 ~ 1330	1475 ~ 1485	nm
Pass Band	1535 ~ 1565			nm
Insertion Loss <sup>1</sup>	< 0.2	< 0.3	< 0.4	dB
Temperature Dependent Loss	< 0.1	< 0.15	< 0.1	dB
Isolation	> 20	> 17	> 15	dB
Polarization Dependent Loss	< 0.1	< 0.15	< 0.13	dB
Wavelength Dependent Loss	< 0.15			dB
Return Loss	> 50			dB
Directivity	> 55			dB
Optical Power Handling	< 4			W
Operating Temperature	-10 ~ 70			°C
Storage Temperature	-40 ~ 85			°C
Package Dimension	250/900um fiber: (f)3.0x(L)54 3mm cable: (L)98x(W)14x(H)8.5			mm

1. Excluding connectors

## Applications

- Telecommunications
- CATV
- EDFA Amplifiers
- Raman Amplifiers

## Ordering Information

FC-	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Wavelength	Grade	Package		Port	Fiber Type	Connector Type
		980/1550 = 6 1310/1550 = 7 1480/1550 = 8 Special = 0	Premium = 1 Special = 0	Standard = 1 Special = 0		1x2=1 2x2=2 Special=0	SMF-28e = 1 900um SM = 3 HI 980=6 HI 1060 =7 Special=0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC = 7 Special = 0