

Single Mode Narrowband FiberOptic Coupler/Splitter

(patents pending)

Product Description

The FC Series fiber optic coupler is based on Agiltron's fused biconical taper technology and compact packaging structure. It features good uniformity, low excess loss and very low polarization sensitivity. The device is ideal for splitting or combining light with exceptional performance over a wide wavelength range



Performance Specifications

FC Series	Parameter		Unit	
Coupling Ratio	1/99 to 50/50			
Bandwidth	10		nm	
Excess Loss	< 0.1		dB	
Insertion Loss	Output1	Output2		
	Split Ratio:50/50	< 3.6	< 3.6	dB
	Split Ratio:40/60	< 4.8	< 2.8	dB
	Split Ratio:30/70	< 6.1	< 2.0	dB
	Split Ratio:20/80	< 8.0	< 1.3	dB
	Split Ratio:10/90	< 12.0	< 0.8	dB
	Split Ratio: 5/95	< 18.4	< 0.5	dB
	Split Ratio: 1/99	< 22.0	< 0.3	dB
Uniformity (50/50)	< 1.0		dB	
Polarization Dependent Loss	< 0.15		dB	
Directivity	> 55		dB	
Return Loss	> 55		dB	
Optical Power Handling	< 5		W	
Operating Temperature	-40-85		°C	
Storage Temperature	-50-85		°C	
Package Dimension *	250um: (φ)3x(L)54		mm	
	900um: (φ)3x(L)70			
	2/3mm Cable: (L)98x(W)16x(H)9			

* Other package options available on request

Features

- Wavelength Independent
- Ultra Low Excess Loss
- Low Polarization Sensitivity
- Highly Stable & Reliable
- Ultra Low Cost

Applications

- Telecommunications
- CATV
- Local Access Network (LAN)
- Fiberoptic Instrumentation

Single Mode Narrowband FiberOptic Coupler/Splitter

Ordering Information

FC-	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type	Wavelength	Grade	Package	Coupling Ratio	Port	Fiber Type	Connector Type	
	1625nm=1 1590nm=2 1570nm=3 1550nm=4 1480nm=5 1475nm=6 1310nm=7 1064nm=8 980nm=9 850nm=A 780nm=P 2000nm=L Specify =0	Premium=1 Special=0	54(L)=1 70(L)=2 98(L)=3 Special=0	01/99=1 05/95=2 10/90=3 20/80=4 30/70=5 40/60=6 50/50=7 Special=0	1x2=1 2x2=2	SMF28 250μm=1 900um loose tube=3 Special= 0	None = 1 FC / PC = 2 FC / APC = 3 SC / PC = 4 SC / APC = 5 ST / PC = 6 LC = 7 Special = 0	