



2 μ m Fiber Coupler 2x2



● Product Description

The FBC series fiber optic couplers are based on Agiltron's fusion double-cone taper technology and compact packaging structure. They feature excellent uniformity, low excess loss, and extremely low polarization sensitivity. This device is ideal for splitting or combining light with outstanding performance across a wide wavelength range.

● Product features

Ultra-low loss 、 Low polarization sensitivity 、 High reliability and stability 、 Ultra-low cost 、 No impact on wavelength

● Part Number

MP-FBC-2000-A-2-50/50-SA

● Application area

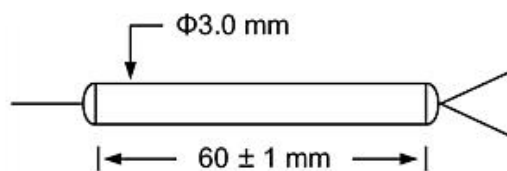
Optical communication 、 Cable television 、 Local area networks (LAN) 、

Fiber optic instruments

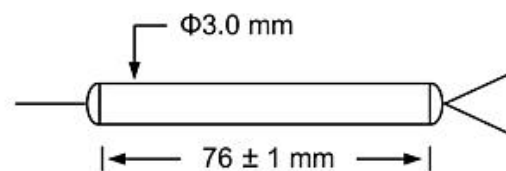
● Core parameters

Center Wavelength	Splitting Ratio	Port Structure
2000nm	50/50	2x2

● Dimension Drawing



250 μm bare fiber



900 μm loose tube

● General Parameters

Parameters

FC Series	Parameter	Unit
Coupling Ratio	1/99 to 50/50	



FC Series	Parameter		Unit
Bandwidth	± 20		nm
Additional Loss	<0.1		dB
Insertion Loss	Output 1	Output 2	
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	<0.3	dB
Consistency (50:50)	<1		dB
Polarization Dependent Loss	<0.15		dB
Directionality	>55		dB
Return Loss	>55		dB
Maximum Operating Power	<5		W
Operating Temperature	-40~75		°C
Storage Temperature	-40~85		°C
Dimensions	250um:(ϕ)3x(L)60 900um:(ϕ)3x(L)77		mm

Ordering Info

Coupling ratio	Port	Fiber Type	Fiber Jacket	Fiber Length	Connector



1/99					None
5/95					FC/APC
10/90					FC/PC
20/80	1x2	SM1950	250um	0.5m	LC
30/70	2x2	PM1950	900um	1m	SC/APC
40/60		Special	Special	Special	SC/FC
50/50					ST/PC
Special					Special