

1750nm 1x2 2x2 SM Fiber Fused Coupler

1750nm 1x2, 2x2 SM Fused Coupler is built with fused biconical taper (FBT) technology, optical signal power can be splitted into two parts with even or various coupling ratio by the FBT Coupler, it's widely applied in fiber optic transmission and fiber optic sensor field, the MM and PM types are available upon request.

Application:

Optical Signal Transmission
Fiber Optic Sensor
Fiber Amplifier
Optical Diffraction System

Features:

Low Excess Loss
High Return Loss
Low Insertion Loss
High Reliability



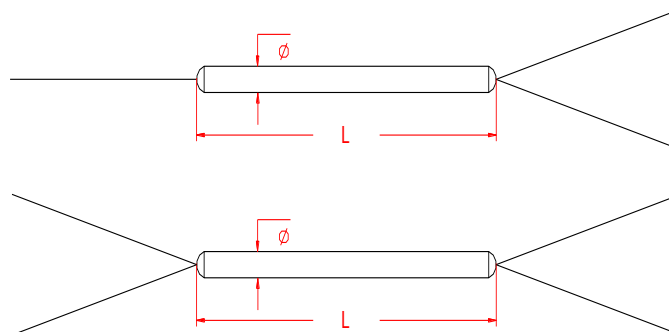
Specification:

Parameter	Symbol	Value	Unit	
Center Wavelength	λ	1750	nm	
Bandwidth	BW	± 10	nm	
Max. Excess Loss	EL	0.8	dB	
Max. Insertion Loss	IL	50/50	3.6/3.6	dB
		40/60	4.4/2.6	dB
		30/70	5.7/1.9	dB
		20/80	7.6/1.25	dB
		10/90	10.65/0.65	dB
		5/95	13.8/0.4	dB
		3/97	16.15/0.3	dB
		2/98	18.05/0.25	dB
		1/99	21.15/0.2	dB
Max. Polarization Dependent Loss	PDL	0.15	dB	
Min. Directivity		50	dB	
Min. Return Loss	RL	50	dB	
Fiber Type		SMF-28e fiber	-	
Max. Tensile Load		5	N	
Max. Optical Power (CW)	P	2	W	
Operating Temperature	T	-40~75	°C	
Storage Temperature	T	-40~85	°C	
Package Dimension		$\Phi 3.0 \times L54$	mm	

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, Connectors only 1W CW optical power guarantee.

Drawing:



Ordering Information (Part Number):**SMFUC-~~WWW~~-~~PP~~-~~RR~~-~~FF~~-~~J~~-~~LL~~-~~CC~~**

WWW	PP	RR	FF	J	LL	CC
Wavelength	Port	Coupling Ratio	Fiber Type	Fiber Jacket	Fiber Length	Connector
1700 - 1700nm	12 - 1x2	01 - 1/99	S2 - SMF-28e	B - 250um Bare Fiber	05 - 0.5m	NE - None
1720 - 1720nm	22 - 2x2	02 - 2/98	SS - Specify	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1750 - 1750nm		03 - 3/97		2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
SSSS - Specify		05 - 5/95		3 - 3.0mm Loose Tube	20 - 2.0m	SA - SC/APC
		10 - 10/90			SS - Specify	SU - SU/APC
		20 - 20/80				LA - LC/APC
		30 - 30/70				LU - LC/UPC
		40 - 40/60				SS - Specify
		50 - 50/50				
		SS - Specify				