

1250-1650nm Broadband 1x2 2x2 SM Fiber Fused Coupler

1250-1650nm Broadband 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:

OCT
Fiber Optic Sensor
Fiber Amplifier
Optical Diffraction System

Features:

Low Excess Loss
High Return Loss
Low Insertion Loss
High Reliability



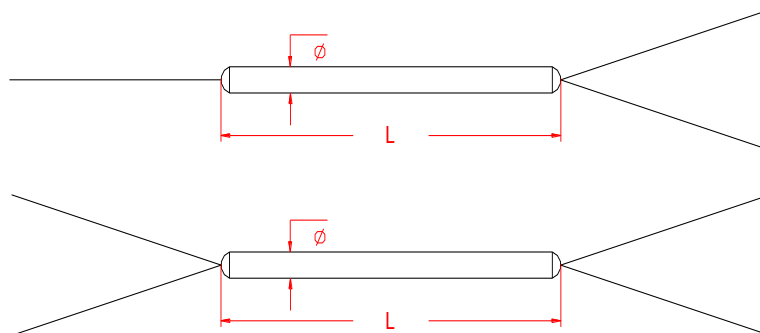
Specification:

Parameter	Symbol	Value	Unit	
Operating Wavelength	λ	1250-1650	nm	
Max. Excess Loss	EL	0.3	dB	
Max. Insertion Loss	IL	50/50	3.8/3.8	dB
		40/60	5.0/3.1	dB
		30/70	6.2/2.4	dB
		20/80	8.0/1.8	dB
		10/90	11.0/1.3	dB
		5/95	14.5/1.1	dB
		3/97	19.0/1.05	dB
		2/98	18/0.9	dB
		1/99	21.0/0.9	dB
Max. Polarization Dependent Loss	PDL	0.1	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		$\Phi 3.0 \times L40$ for Bare Fiber $\Phi 3.0 \times L54$ for Bare Fiber or 900um Loose Tube 90x20x10 for 2.0 or 3.0mm Loose Tube 100x80x10 for 2.0 or 3.0mm Loose Tube	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~~-~~D~~-~~J~~-~~LL~~-~~CC~~**

WWW	PP	RR	FF	D	J	LL	CC
Wavelength	Port	Coupling Ratio	Fiber Type	Package Dimension	Fiber Jacket	Fiber Length	Connector
1216 - 1250 - 1650nm	12 - 1x2 22 - 2x2	01 - 1/99 02 - 2/98 03 - 3/97 05 - 5/95 10 - 10/90 20 - 20/80 30 - 30/70 40 - 40/60 50 - 50/50 SS - Specify	S2 - SMF-28e SS - Specify	1 - Φ 3.0x40mm 2 - Φ 3.0x54mm 3 - 90x20x10mm 4 - 100x80x10mm	B - 250um Bare Fiber 9 - 900um Loose Tube 2 - 2.0mm Loose Tube 3 - 3.0mm Loose Tube	05 - 0.5m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	NE - None FA - FC/APC FU - FC/UPC SA - SC/APC SU - SU/APC LA - LC/APC LU - LC/UPC SS - Specify