

1250nm 1x2 2x2 SM Fiber Fused Coupler

1250nm 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



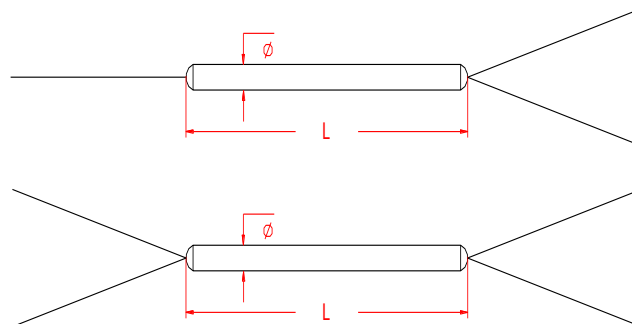
Specification:

Parameter	Symbol	Value	Unit	
Center Wavelength	λ	1250	nm	
Bandwidth	BW	± 10	nm	
Max. Excess Loss	EL	0.8	dB	
Max. Insertion Loss	IL	50/50	3.8/3.8	dB
		40/60	4.8/2.8	dB
		30/70	6.1/2.0	dB
		20/80	8.0/1.3	dB
		10/90	12.0/0.8	dB
		5/95	13.8/0.4	dB
		3/97	19.0/0.4	dB
		2/98	20.0/0.3	dB
		1/99	22.0/0.3	dB
Max. Polarization Dependent Loss	PDL	0.2	dB	
Min. Directivity		50	dB	
Min. Return Loss	RL	50	dB	
Fiber Type		HI 1060	-	
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*-*D*-*J*-*LL*-*CC***

WWW	PP	RR	FF	J	LL	CC
Wavelength	Port	Coupling Ratio	Fiber Type	Fiber Jacket	Fiber Length	Connector
1100 - 1100nm	12 - 1x2	01 - 1/99	H1 - HI 1060	B - 250um Bare Fiber	05 - 0.5m	NE - None
1120 - 1120nm	22 - 2x2	02 - 2/98		9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1150 - 1150nm		03 - 3/97			15 - 1.5m	FU - FC/UPC
1180 - 1180nm		05 - 5/95			20 - 2.0m	SA - SC/APC
1200 - 1200nm		10 - 10/90			SS - Specify	SU - SU/APC
1230 - 1230nm		20 - 20/80				LA - LC/APC
1250 - 1250nm		30 - 30/70				LU - LC/UPC
SSSS - Specify		40 - 40/60				SS - Specify
		50 - 50/50				
		SS - Specify				