

1550nm 1x3 SM Monolithic Fiber Fused Coupler

1550nm 1x3 SM Monolithic Fiber Fused Coupler is built with fused biconical taper (FBT) technology, optical signal power can be splitted into three 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
CATV System
Optical Diffraction System

Features:

Low Excess Loss
High Return Loss
Low Insertion Loss
High Reliability

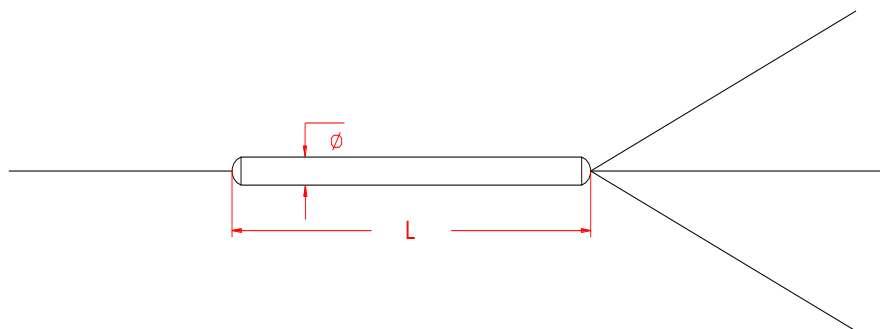


Specification:

Parameter		Symbol	Value	Unit
Center Wavelength		λ	1550	nm
Bandwidth		BW	± 20	nm
Max. Excess Loss		EL	0.15	dB
Max. Insertion Loss (For 1x3 Configuration)	0.5/99/0.5	IL	24.5/0.25/24.5	dB
	1/98/1		21.5/0.25/21.5	dB
	2.5/95/5		17.8/0.4/17.8	dB
	5/90/5		14.7/0.65/14.7	dB
	10/80/10		10.8/1.1/10.8	dB
	15/70/15		9.0/2.1/9.0	dB
	20/60/20		7.4/2.8/7.4	dB
	25/50/25		6.6/3.4/6.6	dB
	30/40/30		5.7/4.4/5.7	dB
	33/33/33		5.4/5.4/5.4	dB
	35/30/35		5.2/5.7/5.2	dB
	40/20/40		4.5/7.8/4.5	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 $\Phi 4.0 \times L65$ 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 (Continue Wavelength) 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
1310 - 1310nm	13 - 1x3	0.5 - 0.5/99/0.5	S2 - SMF-28e	1 - Φ3.0x40mm	B - 250um	05 - 0.5m	NE - None
1550 - 1550nm	33 - 3x3	01 - 1/98/1	SS - Specify	2 - Φ4.0x65mm	Bare Fiber	10 - 1.0m	FA - FC/APC
		2.5 - 2.5/95/5		3 - 90x20x10mm	9 - 900um Loose	15 - 1.5m	FU - FC/UPC
		05 - 5/90/5		4 - 100x80x10mm	Tube	20 - 2.0m	SA - SC/APC
		10 - 10/80/10			2 - 2.0mm Loose	SS - Specify	SU - SU/APC
		15 - 15/70/15			Tube		LA - LC/APC
		20 - 20/60/20			3 - 3.0mm Loose		LU - LC/UPC
		25 - 25/50/25			Tube		SS - Specify
		30 - 30/40/30					
		33 - 33/33/33					
		35 - 35/30/35					
		40 - 40/20/40					
		SS - Specify					