

## 1550nm Large Core 1x2 2x2 MM Fiber Fused Coupler

1550nm Large Core 1x2 2x2 MM Fiber 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.

### Application:

Optical Signal Transmission  
 Fiber Optic Sensor  
 Testing System  
 Optical Diffraction System

### Features:

Low Excess Loss  
 High Return Loss  
 Low Insertion Loss  
 High Reliability



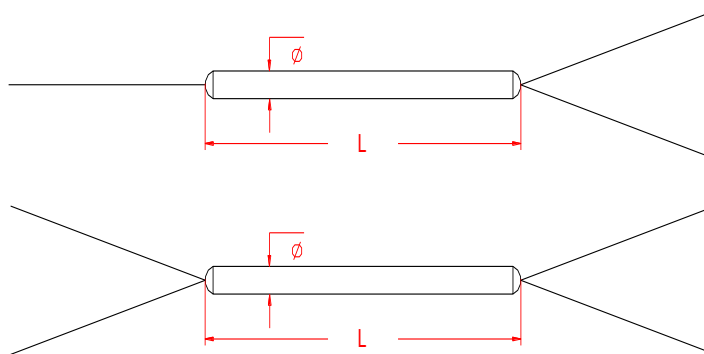
### Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	$\lambda$	1550	nm
Bandwidth	BW	$\pm 40$	nm
Max. Excess Loss	EL	0.7	dB
Max. Insertion Loss	50/50	3.7/3.7	dB
	40/60	4.7/2.7	dB
	30/70	6.0/2.1	dB
	20/80	7.8/1.4	dB
	10/90	11.2/0.9	dB
	5/95	14.5/0.7	dB
	3/97	17.5/0.6	dB
	2/98	18.6/0.6	dB
	1/99	22.0/0.2	dB
Min. Directivity		40	dB
Fiber Type		105/125, 200/230 MM 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. Connectors only 1W (Continue Wavelength) optical power guarantee.

### Drawing:



**Ordering Information (Part Number):****MMFUC-WWWW-PP-RR-FF-D-J-LL-CC**

<b>WWW</b>	<b>PP</b>	<b>RR</b>	<b>FF</b>	<b>D</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
<b>Wavelength</b>	<b>Port</b>	<b>Coupling Ratio</b>	<b>Fiber Type</b>	<b>Package Dimension</b>	<b>Fiber Jacket</b>	<b>Fiber Length</b>	<b>Connector</b>
850 - 850nm	12 - 1x2	01 - 1/99	M1 - 105/125	1 - $\Phi$ 3.0x40mm	B - 250um Bare Fiber	05 - 0.5m	NE - None
1310 - 1310nm	22 - 2x2	02 - 2/98	M2 - 200/230	2 - $\Phi$ 3.0x54mm	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
1550 - 1550nm		03 - 3/97	SS - Specify	3 - 90x20x10mm	2 - 2.0mm Loose Tube	15 - 1.5m	FU - FC/UPC
SSS - Specify		05 - 5/95		4 - 100x80x10mm	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					