

## 1310nm RC80 1x2 2x2 PM Fiber Fused Coupler

1310nm RC80 1x2, 2x2 Polarization Maintaining (PM) Fused Coupler is built with fused biconical taper (FBT) technology, it can be used in split the optical signal power into two parts with even or various coupling ratio and keep the polarization maintaining, it's widely applied in fiber optic sensor, fiber amplifier system and fiber optic diffraction field.

### Application:

Fiber Optic Amplifier  
Fiber Optic Sensor  
Fiber Laser  
Optical Diffraction System

### Features:

Low Excess Loss  
Low Insertion Loss  
High Extinction Ratio  
High Reliability



### Specification:

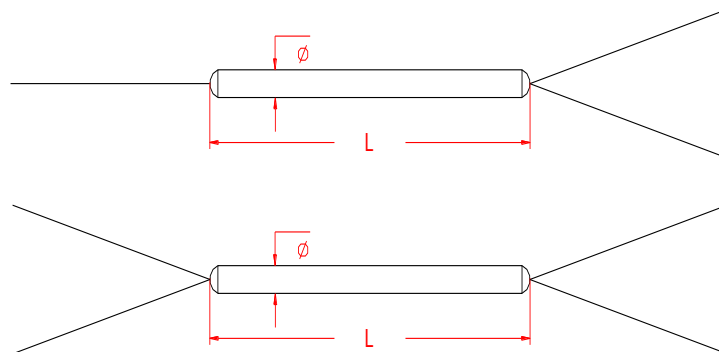
Parameter	Symbol	Value	Unit	
Center Wavelength	$\lambda$	1310	nm	
Bandwidth	BW	$\pm 15$	nm	
Max. Excess Loss	EL	0.5	dB	
Max. Insertion Loss	IL	50/50 ( $\pm 3.5$ )	3.6/3.6	dB
		40/60 ( $\pm 2.5$ )	5.2/3.1	dB
		30/70 ( $\pm 2.5$ )	5.8/2.0	dB
		20/80 ( $\pm 2.0$ )	8.0/1.5	dB
		10/90 ( $\pm 1.2$ )	11.6/1.2	dB
		5/95 ( $\pm 0.8$ )	14.8/0.8	dB
		3/97 ( $\pm 0.7$ )	17.0/0.5	dB
		2/98 ( $\pm 0.6$ )	18.4/0.4	dB
1/99 ( $\pm 0.4$ )	22/0.35	dB		
Min. Extinction Ratio	ER	18	dB	
Min. Directivity		50	dB	
Min. Return Loss	RL	50	dB	
Fiber Type		PM 1310 RC80 fiber	-	
Max. Tensile Load		5	N	
Max. Optical Power (CW)	P	2	W	
Operating Temperature	T	-40~75	$^{\circ}\text{C}$	
Storage Temperature	T	-40~85	$^{\circ}\text{C}$	
Package Dimension		$\Phi 3.0 \times L35$	mm	

Notice: Above specifications are tested at center wavelength without connector in room temperature @23 $^{\circ}\text{C}$ .

For devices with connectors, IL will be 0.3dB higher, EL will be 0.2dB higher, ER will be 2dB lower, slow axis is default aligned to the connector key.

If need optical power more than 2W CW, please contact us to confirm. Connectors only 1W (Continue Wavelength) optical power guarantee.

### Drawing:



**Ordering Information (Part Number):****RPMFUC-WWWW-PP-A-RR-J-LL-CC**

<b>WWW</b>	<b>PP</b>	<b>A</b>	<b>RR</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
<b>Wavelength</b>	<b>Port</b>	<b>Working Axis</b>	<b>Coupling Ratio</b>	<b>Fiber Jacket</b>	<b>Fiber Length</b>	<b>Connector</b>
1310 - 1310nm	12 - 1x2 22 - 2x2	B - Both Axes Working S - Slow Axis Working F - Fast Axis Working	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	B - 165um Bare Fiber	05 - 0.5m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	NE - None