

## 850nm 1x2 2x2 PM Fiber Filter Coupler

850nm 1x2, 2x2 Polarization Maintaining (PM) Filter Coupler is built with thin-film filter technology. optical signal power can be splitted into two parts with even or various coupling ratio by the Filter Coupler, it's widely applied in fiber optic transmission and fiber optic sensor field, the high power type is available upon request.

### Application:

Optical Signal Transmission  
Fiber Optic Sensor  
Testing System  
Optical Diffraction System

### Features:

Low Excess Loss  
High Extinction Ratio  
Low Insertion Loss  
High Reliability



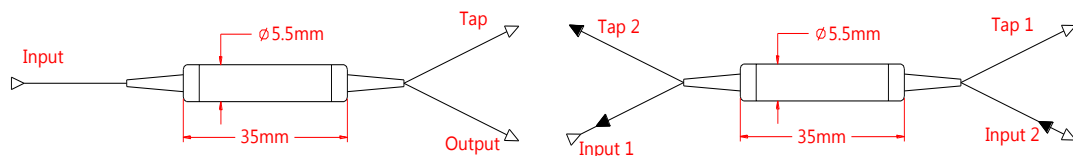
### Specification:

Parameter		Symbol	Value		Unit
Center Wavelength		$\lambda$	850		nm
Bandwidth		BW	$\pm 20$		nm
Configuration			1x2	2x2	dB
Max. Excess Loss		EL	1.2	1.4	dB
Tap Ratio			1 $\pm$ 0.2, 2 $\pm$ 0.4, 3 $\pm$ 0.7, 5 $\pm$ 1, 10, 20, 30, 50		%
Min. Extinction Ratio	For Both Axes Working	ER	20	18	dB
	For Fast Axis Working	ER	22	20	dB
Min. Directivity			50		dB
Min. Return Loss		RL	50		dB
Fiber Type			PM Panda fiber		-
Max. Tensile Load			5		N
Max. Optical Power (CW)		P	500		mW
Operating Temperature		T	0~70		°C
Storage Temperature		T	-40~85		°C
Package Dimension			$\Phi 5.5 \times L35$		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, ER will be 2dB lower, RL will be 5dB lower.

### Drawing:



### Ordering Information (Part Number):

**PMFIC-*WWW*-*A*-*RR*-*FF*-*PP*-*J*-*LL*-*CC***

<b>WWW</b>	<b>PP</b>	<b>A</b>	<b>RR</b>	<b>FF</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
Wavelength	Port	Working Axis	Coupling Ratio	Fiber Type on Tap Port	Fiber Jacket	Fiber Length	Connector
800 - 800nm	12 - 1x2	F - Fast axis	01 - 1/99	PM - PM Panda Fiber	B - 250um Bare	05 - 0.5m	NE - None
808 - 808nm	22 - 2x2	Blocked	02 - 2/98	H7 - HI 780 Fiber	Fiber	10 - 1.0m	FA - FC/APC
810 - 810nm		B - Both Axes	03 - 3/97	SS - Specify	9 - 900um Loose	15 - 1.5m	FU - FC/UPC
820 - 820nm		Working	05 - 5/95		Tube	20 - 2.0m	SA - SC/APC
830 - 830nm			10 - 10/90			SS - Specify	SU - SU/APC
850 - 850nm			20 - 20/80				LA - LC/APC
			30 - 30/70				LU - LC/UPC
			40 - 40/60				SS - Specify
			50 - 50/50				
			SS - Specify				