830nm 1x2 2x2 PM Fiber Filter Coupler

830nm 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:

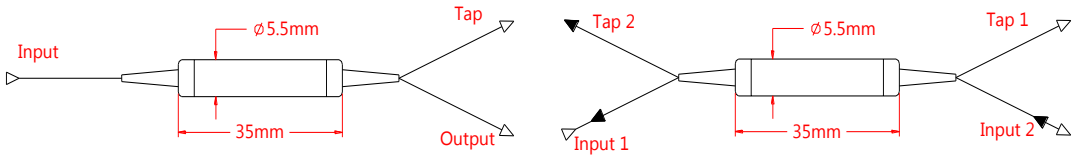
Low Excess Loss
High Extinction Ratio
Low Insertion Loss
High Reliability

Specification:

Parameter		Symbol	Value		Unit
Center Wavelength		λ	830		nm
Bandwidth		BW	±20		nm
Configuration			1x2	2x2	dB
Max. Excess Loss		EL	1.2	1.4	dB
Tap Ratio			1±0.2, 2±0.4, 3±0.7, 5±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. Tensil Load			5		N
Max. Optical Power (CW)		P	500		mW
Operating Temperature		T	0~70		℃
Storage Temperature		T	-40~85		℃
Package Dimension			Φ5.5xL35		mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23℃.
For devices with connectors, IL will be 0.3dB higher, ER will be 2dB lower, RL will be 5dB lowe.

Drawing:



Ordering Information (Part Number):

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

WWW	PP	A	RR	FF	J	LL	CC
Wavelength	**Port**	**Working Axis**	**Coupling Ratio**	**Fiber Type on Tap Port**	**Fiber Jacket**	**Fiber Length**	**Connector**
800 - 800nm 808 - 808nm 810 - 810nm 820 - 820nm 830 - 830nm 850 - 850nm	12 - 1x2 22 - 2x2	F - Fast axis Blocked B - Both Axes 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	PM - PM Panda Fiber H7 - HI 780 Fiber SS - Specify	B - 250um Bare Fiber 9 - 900um Loose Tube	05 - 0.5m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	NE - None FA - FC/APC FU - FC/UPC SA - SC/APC SU - SU/APC LA - LC/APC LU - LC/UPC SS - Specify