

820nm 1x2 2x2 PM Fiber Filter Coupler

820nm 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 Quantum Communication and fiber optic sensor field, the high power type is available upon request.

Application:

Quantum Communication
Fiber Optic Sensor
Testing System
Optical Diffraction System

Features:

Low Excess Loss
High Extinction Ratio
Low Insertion Loss
High Reliability



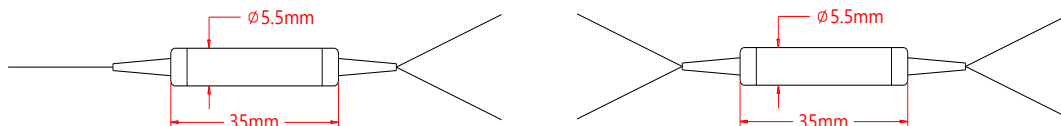
Specification:

Parameter		Symbol	Value		Unit
Center Wavelength		λ	820		nm
Bandwidth		BW	± 10		nm
Configuration			1x2	2x2	-
Max. Excess Loss		EL	1.0	1.2	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 Blocked	ER	22	20	dB
Min. Directivity			50		dB
Min. Return Loss		RL	50		dB
Max. Optical Power (CW)		P	500		mW
Max. Tensile Load			5		N
Fiber Type			PM Panda fiber		-
Operating Temperature		T	0~70		℃
Storage Temperature		T	-40~85		℃
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 - PP - A - RR - J - LL - CC						
WWW	PP	A	RR	J	LL	CC
Wavelength	Port	Working Axis	Coupling Ratio	Fiber Jacket	Fiber Length	Connector
800 - 800nm	12 - 1x2	F - Fast axis Blocked	01 - 1/99	B - 250um Bare Fiber	05 - 0.5m	NE - None
808 - 808nm	22 - 2x2	B - Both Axes Working	02 - 2/98	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
810 - 810nm			03 - 3/97	2 - 2mm Loose Tube	15 - 1.5m	FU - FC/UPC
820 - 820nm			05 - 5/95	3 - 3mm Loose 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
895 - 895nm			30 - 30/70			LU - LC/UPC
SSS - Specify			40 - 40/60			SS - Specify
			50 - 50/50			
			SS - Specify			