

680nm 1x2 2x2 PM Fiber Filter Coupler

680nm 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



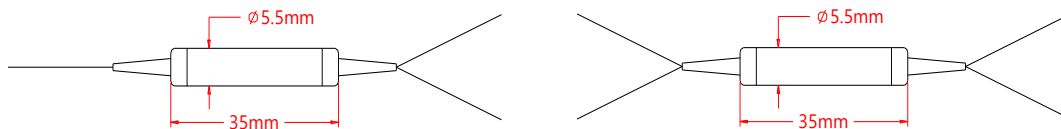
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	680	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	ER	20	dB
Min. Directivity		50	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	300	mW
Max. Tensile Load		5	N
Fiber Type		PM Panda fiber	-
Operating Temperature	T	0~70	$^{\circ}$ C
Storage Temperature	T	-40~85	$^{\circ}$ C
Package Dimension		Φ 5.5xL35 or Φ 5.5xL38	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23 $^{\circ}$ 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
633 - 633nm	12 - 1x2	F - Fast axis Blocked	01 - 1/99	B - 250um Bare Fiber	05 - 0.5m	NE - None
635 - 635nm	22 - 2x2	B - Both Axes Working	02 - 2/98	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
640 - 640nm			03 - 3/97	2 - 2mm Loose Tube	15 - 1.5m	FU - FC/UPC
650 - 650nm			05 - 5/95	3 - 3mm Loose Tube	20 - 2.0m	SA - SC/APC
670 - 670nm			10 - 10/90		SS - Specify	SU - SU/APC
680 - 680nm			20 - 20/80			LA - LC/APC
SSS - Specify			30 - 30/70			LU - LC/UPC
			40 - 40/60			SS - Specify
			50 - 50/50			
			SS - Specify			