



## Polarization Maintaining Filter Coupler Module (1 x 3 / 1 x 4 / 1 x 8) (PMFCM Series)

Rev 11B

### Description

The PMFCM series is manufactured by using advanced technology to allow the input signal to be split into multiple channels at a given splitting ratio with high extinction ratio, low excess loss, good uniformity, low WDL and low TDL. It can be widely used in fiber sensors, amplifiers, various laser applications, etc.

### Key Features

- High Extinction Ratio
- Low Insertion Loss
- Low Wavelength Dependence Loss

### Applications

- Fiber Sensing
- Fiber Lasers

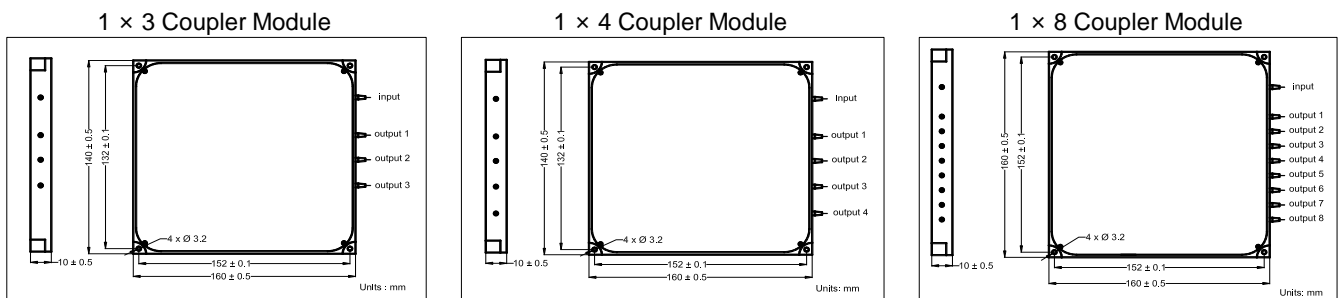
### Specifications

Parameter	Unit	Value	Value	Value
Configuration	-	1 x 3	1 x 4	1 x 8
Center Wavelength ( $\lambda_c$ )	nm	1064	1064	1064
Operating Wavelength Range	nm	$\lambda_c \pm 30$	$\lambda_c \pm 30$	$\lambda_c \pm 30$
Insertion Loss	dB	$\leq 6.1$ , Typ. 5.7	$\leq 7.7$ , Typ. 7.4	$\leq 11.5$ , Typ. 11.2
Wavelength Dependent Loss	dB	$\leq 0.5$ , Typ. 0.3	$\leq 0.5$ , Typ. 0.3	$\leq 0.5$ , Typ. 0.3
Max. IL Uniformity	dB	0.7	0.8	1
Min. Return Loss	dB	50	50	50
Min. Directivity	dB	50	50	45
Min. Extinction Ratio	dB	20	20	20
Max. Optical Power	mW	300	300	300
Fiber Type	-	PM980 Panda	PM980 Panda	PM980 Panda
Operating Temperature	°C	- 5 to + 70	- 5 to + 70	- 5 to + 70
Storage Temperature	°C	- 40 to + 85	- 40 to + 85	- 40 to + 85
Package Dimensions	mm	160 x 140 x 10	160 x 140 x 10	160 x 160 x 10

<sup>1</sup>IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

<sup>2</sup>All of above value are tested at room temperature, unless other specified.

### Package Dimensions



### Ordering Information

PMFCM-①①-②②②②-③③-④-⑤-⑥-⑦

①①: Center Wavelength	②②②②: Configuration	③③: Splitting Ratio	④: Connector Type
06 - 1064 nm	0103 - 1 x 3	EV - Evenly Split	1 - FC/UPC    4 - SC/APC
SS - Specify	0104 - 1 x 4	SS - Specify	2 - FC/APC    N - None
	0108 - 1 x 8		3 - SC/UPC    S - Specify

⑤: Fiber Jacket

B - 250  $\mu$ m Bare Fiber

L - 900  $\mu$ m Loose Tube

2 - 2 mm Cable

3 - 3 mm Cable

⑥: Fiber Length

H - 0.5 m

S - Specify

⑦: Working Axis

F - Fast Axis Blocked