

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

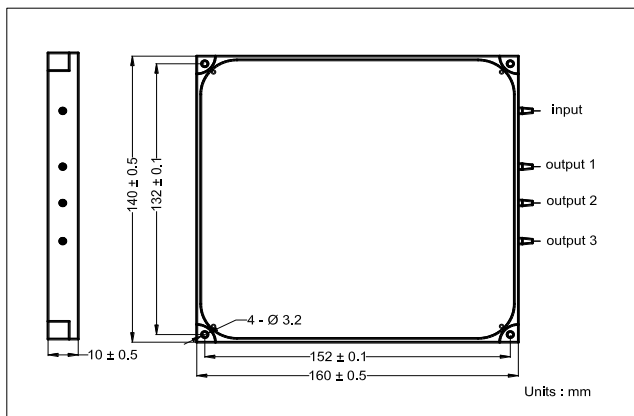
- Fiber Sensing
- Fiber Lasers

Specifications

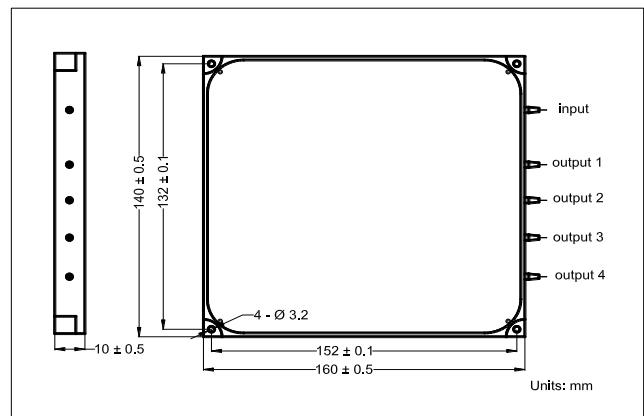
Parameter	Unit	Value		
Configuration	-	1 × 3	1 × 4	1 × 8
Center Wavelength (λ_c)	nm	1064	1064	1064
Operating Wavelength Range	nm	$\lambda_c \pm 30$	$\lambda_c \pm 30$	$\lambda_c \pm 30$
Insertion Loss	dB	≤ 6.1 , Typ. 5.7	≤ 7.7 , Typ. 7.4	≤ 11.5 , Typ. 11.2
Wavelength Dependent Loss	dB	≤ 0.5 , Typ. 0.3	≤ 0.5 , Typ. 0.3	≤ 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	-	PM 980 Panda Fiber	PM 980 Panda Fiber	PM 980 Panda Fiber
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 × 140 × 10	160 × 140 × 10	160 × 160 × 10

¹IL 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.

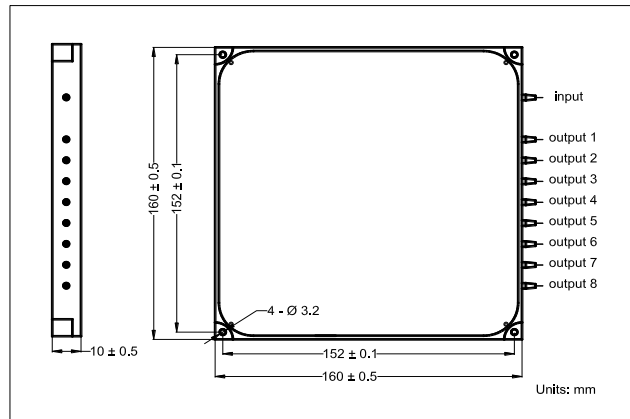
Package Dimensions



1 x 3 Coupler Module



1 x 4 Coupler Module



1 x 8 Coupler Module

Ordering Information

PMFCM-①①-②②②②-③③-④-⑤-⑥-⑦

①①: Center Wavelength

06 - 1064 nm

SS - Specify

②②②②: Configuration

0103 - 1 × 3

0104 - 1 × 4

0108 - 1 × 8

③③: Splitting Ratio

EV - Evenly Split

SS - Specify

④: Connector Type

1 - FC/UPC 4 - SC/APC

2 - FC/APC N - None

3 - SC/UPC S - Specify

⑤: Fiber Jacket

B - 250 μm Bare Fiber

L - 900 μm 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