

Polarization Maintaining Filter Coupler Module (1 × 4/1 × 8) (PMFCM Series)

Rev 11

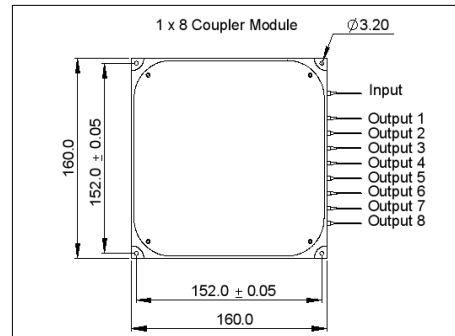
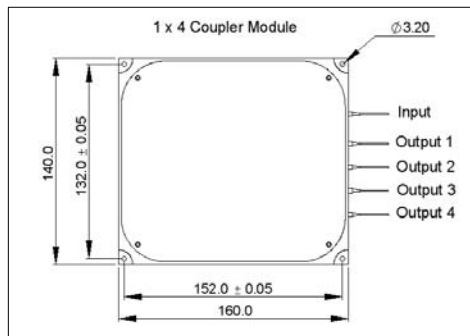
The PMFCM series is manufactured by using advanced technology to allow the input signal to be splitted into multi channels at a given splitting ratio with high extinction ratio, low excess loss, good uniformity, low wavelength dependance and low temperature dependance. It can be widely used in fiber sensors, amplifiers, lasers, etc.

Specifications

Parameter	Unit	1 × 4	1 × 8
Center Wavelength (λ_c)	nm	1310 or 1550	1310 or 1550
Operating Wavelength Range	nm	$\lambda_c \pm 30$	$\lambda_c \pm 30$
Insertion Loss	dB	≤ 7.5 , Typ. 7.0	≤ 11 , Typ. 10.5
Wavelength Dependent Loss	dB	≤ 0.5 , Typ. 0.3	≤ 0.5 , Typ. 0.3
Max. IL Uniformity	dB	0.8	1
Min. Return Loss	dB	50	50
Directivity	dB	50	45
Min. Extinction Ratio	dB	20	20
Max. Temperature Dependent Loss	dB/°C	0.006	0.008
Fiber Type		PM Panda fiber	PM Panda fiber
Operating Temperature	°C	-5 to +70	-5 to +70
Storage Temperature	°C	-40 to +85	-40 to +85
Package Dimensions	mm	160 × 140 × 10	160 × 160 × 10

*IL is 0.3 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



Ordering Information

PMFCM-①①-②②②②-③③-④-⑤-⑥-⑦

①①: Center Wavelength

31 - 1310 nm

55 - 1550 nm

SS - Specify

②②②②: Configuration

0104 - 1 × 4

0108 - 1 × 8

③③: Splitting Ratio

EV - Evenly splitted

SS - Specify

④: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

⑤: Fiber Jacket

B - 250 μ m Panda fiber

L - 900 μ m loose tube

S - Specify

⑥: Fiber Length

H - 0.5 m

S - Specify

⑦: Working Axis

F - Fast axis blocked

N - None

S - Specify