Polarization Maintaining Filter Coupler (PMFC Series)

Rev 11B

Description

The Polarization Maintaining Filter Coupler is manufactured using advanced technology to allow the input signal to be split at various ratios with high extinction ratio. The PM Filter Coupler/Splitter supports both polarizations.

Key Features

- High Extinction Ratio
- Low Insertion Loss

Applications

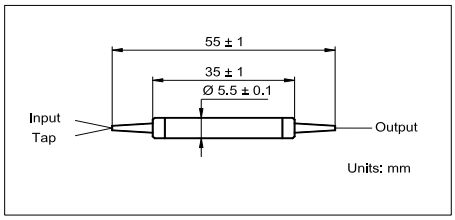
- Fiber Sensing
- Fiber Optic Instruments

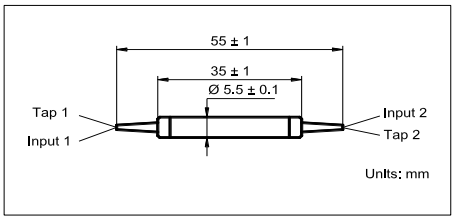
Specifications

Parameter	Unit	Value	
Center Wavelength (λc)	nm	1310 or 1550	
Operating Wavelength Range	nm	λc ± 40	
Configuration	-	1 × 2	2 × 2
Max. Excess Loss	dB	0.7	1.0
Max. Uniformity	dB	0.6	0.8
Tap Ratio	%	1 ± 0.5, 5 ± 1.0, 10 ± 2.0, and 50	
Min. Return Loss	dB	50	50
Min. Extinction Ratio, 23 ℃	dB	20	18
Max. Optical Power (Continuous Wave)	mW	300	
Max. Tensile Load	N	5	
Fiber Type	-	SMF-28 or PM Panda Fiber for tap port	
	-	PM Panda Fiber for input & output ports	
Operating Temperature	℃	- 5 to + 70	
Storage Temperature	℃	- 40 to + 85	

[1]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

PMFC-①①-②-③③-④-⑤-⑥-⑦-⑧

①①: Wavelength
31 - 1310 nm
55 - 1550 nm
SS - Specify

②: Configuration
1 - 1 × 2
2 - 2 × 2

③③: Coupling Ratio
01 - 1/99
05 - 5/95
10 - 10/90
50 - 50/50
SS - Specify

④: Connector Type
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify

⑤: Fiber Jacket	⑥: Fiber Type for Tap Port	⑦: Fiber Length	⑧: Working Axis
B - 250 μm Bare Fiber	M - SMF-28 Fiber	Q - 0.75 m	B - Both Axis Working
L - 900 μm Loose Tube	P - PM Panda Fiber	S - Specify	
S - Specify	S - Specify		