



## Polarization Maintaining Fiber Coupler

I&Optics' polarization maintaining fiber coupler can split any input light into two portions by any specified splitting ratio or mix two input lights in one or two by given ratio. It features low excess loss, high extinction ratio and broad band property due to our unique technology. It can be used in lasers, LiDARs, telecom, sensors, instruments, testing systems and R&D.

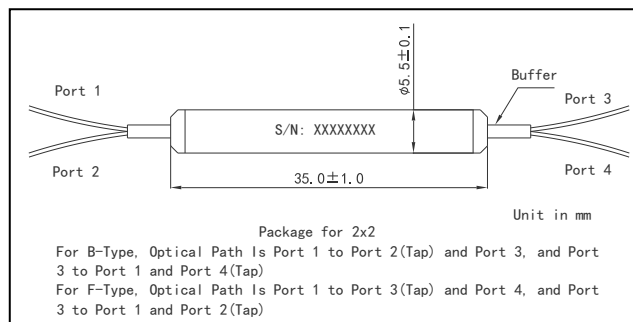
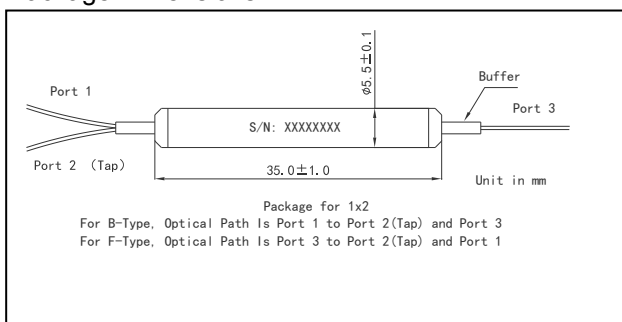
### Specification

Parameter	Test Condition	Unit	Value	
Port Configuration	-	-	1x2	2x2
Nominal Center Wavelength	-	nm	1310, 1480, 1550, 1590 or Specify	
Wavelength Range	-	nm	+/-40	
Max. Excess Loss	at Slow or Fast Axis	dB	0.6, Typ. 0.45	0.85, Typ. 0.7
Nominal Tap Ratio	at Tap Port	%	1.0+/-0.2, 2.0+/-0.4, 5.0+/-1.0, 10.0+/-2.0, 50	
Min. Extinction Ratio	at 23°C, only for PM Fiber Port, at Slow or Fast Axis	dB	21, Typ. 23 for B-Type 22, Typ. 24 for F-Type	
Max. Uniformity	only for 50/50 coupling Ratio	dB	0.4	0.5
Min. Directivity	Port 3 to Port 2 (1x2) or Port 1/(3) to Port 2/(4)	dB	50	
Min. Return Loss	at Center Wavelength	dB	50	
Max. Power Handling Rate	Continuous Wave, Total Power	mW	500 or Specify	
Fiber Type	-	-	SMF-28e or PM 1300 Panda Fiber or Specify	
Max. Fiber Tensile Load	-	N	5	
Operating Temperature	-	°C	-5 to 70	
Operating Relative Humidity	Non-Condense	%	0 to 95	
Storage Temperature	-	°C	-40 to 85	
Storage Relative Humidity	Non-Condense	%	0 to 95	

Above values are for device without connectors. For device with connectors, IL will be 0.3dB higher, ER will be 2dB lower and return loss will 5dB lower.

The default alignment of working polarization and connector key is to slow axis of fiber. Special requirement please call.

### Package Dimensions



### Ordering Informations

PMFC-①-②-③-④-⑤-⑥-⑦-⑧

- ① - Center Wavelength
- 31 - 1310nm
- 48 - 1480nm
- 55 - 1550nm
- SS - Specify
- ② - Port Configuration
- 1 - 1x2
- 2 - 2x2
- ③ - Tap Ratio
- 01 - 1%
- 02 - 2%
- 05 - 5%
- 10 - 10%
- 50 - 50%
- SS - Specify

- ④ - Operating Axis
- B - Both Axes Working
- F - Fast Axis Blocked
- ⑤ - Fiber Type on Port 2/4
- 1 - SMF-28e
- 2 - PM 1300 Panda Fiber
- 3 - PM 14xx Panda Fiber
- 4 - PM 1550 Panda Fiber
- ⑥ - Connector Type on port 1/2/3/4
- 1 - FC/UPC
- 2 - FC/APC
- 3 - SC/UPC
- 4 - SC/APC
- ⑦ - Fiber Jacket on Port 1/2/3/4
- B - Bare Fiber
- L - 900um Loose Tube

- ⑧ - Fiber Length
- 0.8 - 0.8m