



# Polarization Maintaining Fiber Coupler



## Features

- Low Excess Loss
- Various Coupling Ratio
- Wide Pass Band
- High Stability And Reliability
- Epoxy Free Optical Path

## Applications

- Optical Amplifier
- Optical Network
- Power Monitoring
- Fiber Sensors

## Performance Specifications

Parameter	1 X 2	2 X 2
Center Wavelength (nm)	1550	
Max. Excess Loss (dB)	1.0	
Max. Uniformity (dB)	0.8	
Tap Ratio	1%, 2%, 5%, 10%, 40%, and 50%	
Min. Extinction Ratio (dB)	18 (typ.20)	
Optical Return Loss (dB)	>50	
Power Handling (mW)	300	
Max. Tensile Load (N)	5	
Operation Temperature (°C )	-5 ~ +70	
Storage Temperature (°C )	-40 ~ +85	
Fiber Type	PM Panda Fiber for In/Out and SMF-28 for Tap Port	
Dimensions (mm)	φ5.5xL35	

## Coupling Ratio/ Insertion Loss Conversion Chart (without Connector)

Coupling Ratio (%)	1 x 2	2 x 2
50 / 50	3.6	4.0
40 / 60	4.6/2.6	4.8/2.8
10 / 90	11.5/1.1	11.8/1.3
5 / 95	14/0.9	14/1.1
2 / 98	18/0.8	18/1.0
1 / 99	21/0.8	21/1.0

1. The PM fiber and the connector key are aligned to the slow axis.
2. The ER is for fiber <math>\leq 0.75</math> meter. Increase fiber length can decrease the ER.
3. For devices with connectors, insertion loss will be 0.3dB higher, return loss will be 5dB lower, and extinction loss will be 2dB lower.

## Ordering Information

PMFC	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	Center Wavelength	Port	Split Ratio	Fiber Type	Fiber Type on Tap Port	Fiber Length	In/Out Connector
	55=1550nm SS=Specify	1=1x2 2=2x2	01=1/99 02=2/98 05=5/95 10=10/90 40=40/60 50=50/50 SS=Specify	1=Bare fiber 2=900um Jacket S=Specify	M=SMF-28 (For 1x2 only) P=Panda fiber S=Specify	1=0.75m S=Specify	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC/UPC 7=LC/APC X=Special