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# PM Fiber Optic Fused Coupler Ultra-High Extinction

## Product Description

This FC Series PM fiber optic coupler provides high polarization extinction ratio. It features good uniformity, low excess loss and very low polarization sensitivity. The device is ideal for splitting or combining light with exceptional performance over a wide wavelength range



## Performance Specifications

PM Series Fused Coupler		Parameter		Unit
Coupling Ratio		1/99 to 50/50		
Bandwidth		±15		nm
Polarization Dependent Loss		0.15		dB
		Grade P	Grade A	
Excess Loss	1310,1550 nm	≤0.3	≤0.4	dB
	980~1060 nm	≤0.4	≤0.6	
	780,850 nm	≤0.6	≤0.8	
Polarization Extinction Ratio		≥28	≥25	
Split Ratio Tolerance				
Split Ratio:50/50		± 3.8	± 6.0	dB
Split Ratio:40/60		± 2.9	± 4.5	dB
Split Ratio:30/70		± 1.5	± 3.0	dB
Split Ratio:20/80		± 1.3	± 2.1	dB
Split Ratio:10/90		± 1.1	± 1.6	dB
Split Ratio: 5/95		± 0.8	± 1.3	dB
Split Ratio: 1/99		± 0.5	± 0.6	dB
Directivity		> 55		dB
Return Loss		> 55		dB
Optical Power Handling		< 3		W
Operating Temperature		-40~85		°C
Storage Temperature		-50~85		°C
Package Dimension *	250um: (D)3x(L)40		mm	
	900um: (D)3x(L)54			
	2/3mm Cable: (L)98x(W)16x(H)9			

\* Other package options available on request

## Features

- Wavelength Independent
- Low Excess Loss
- Low Polarization Sensitivity
- Highly Stable & Reliable
- Low Cost

## Applications

- Telecommunications
- Sensor
- Local Access Network (LAN)
- Fiberoptic Instrumentation

# PM Fiber Optic Fused Coupler

## Ordering Information

FCPM-	<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"/>
	Wavelength	Grade	Package	Coupling Ratio	Port	Fiber Type		Configuration	Connector
	1060=1 1310=3 1550=5 780=7 850=8 980=9 Special=0	Premium=1 Standard=0 Special=0	40(L)=1 54(L)=2 90(L)=3 Special=0	01/99=1 02/98=2 05/95=3 10/90=4 15/85=5 20/80=6 30/70=7 40/60=8 50/50=9 Special=0	1x2=1 2x2=2	250μm=1 900um =3 Special= 0	Panda=1 Special=0	High ER= 2 Special =0	None = 1 FC / PC = 2 FC / APC = 3 SC / PC = 4 SC / APC = 5 ST / PC = 6 LC = 7 Special = 0

\*Product dimensions may change without notice. This is sometimes required for non-standard specifications.