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PM Fiber Optic Fused Coupler Dual Polarizations

Product Description

This FC Series PM fiber optic coupler works on both orthogonally polarized light, providing polarization independent coupling function. 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



Features

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

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		≥20	≥18	
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

Applications

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

PM Fiber Optic Fused Coupler

Ordering Information

FCPM-	☐	☐	☐	☐	☐	☐	☐	☐	☐
	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 Square=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	Low PDL=1 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.