

High ER PM Fiber Optic Coupler

1x2, 2x2

(26- 28 ER)

Product Description

The FC Series PM fiber optic coupler is based micro-optic technology in a compact packaging structure. 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. The cost is related to the polarization extinction ratio grade level. We make bot single polarization working only and dual polarization working types)



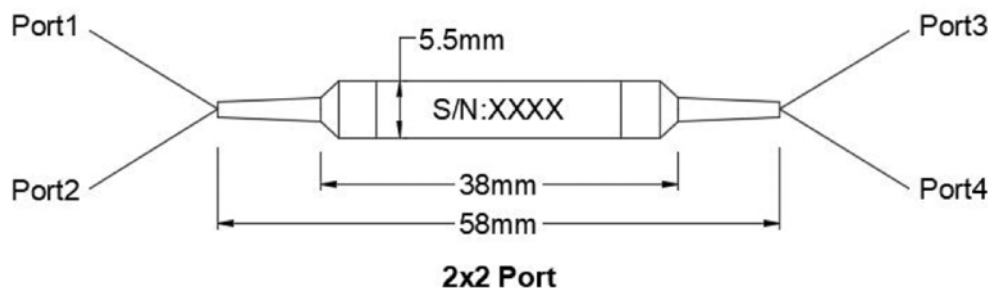
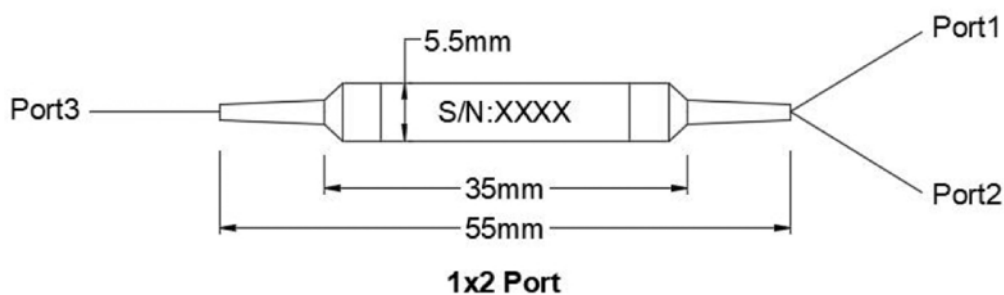
Performance Specifications

High RE PM Coupler		Parameter			Unit
Coupling Ratio		1/99 to 50/50			%
Wavelength Bandwidth		±20			nm
		Grade U	Grade S	Grade P	
Excess Loss*	1310-1550nm	≤0.7	≤0.75	≤0.75	dB
	980-1060nm	≤0.8	≤0.85	≤0.85	dB
Polarization Extinction Ratio		≥28	≥27	≥26	dB
Split Ratio Tolerance					
Split Ratio:50/50		± 3.8	± 3.8	± 3.8	%
Split Ratio:40/60		± 2.9	± 2.9	± 2.9	%
Split Ratio:30/70		± 1.5	± 1.5	± 1.5	%
Split Ratio:20/80		± 1.3	± 1.3	± 1.3	%
Split Ratio:10/90		± 1.1	± 1.1	± 1.1	%
Split Ratio: 5/95		± 0.8	± 0.8	± 0.8	%
Split Ratio: 1/99		± 0.5	± 0.5	± 0.5	%
Directivity		> 55			dB
Return Loss		> 55			dB
Optical Power Handling		< 3			W
Operating Temperature		-40~85			°C
Storage Temperature		-50~85			°C
Package Dimension **		1x2: (D)5.5x(L)35			mm
		2x2: (D)5.5x(L)38			
		2/3mm Cable: (L)98x(W)16x(H)9			

* Without connector, each connector adds 0.3dB IL, 5dB RL, and 2dB RE increases

**Other package options available on request

Dimensions (Unit: mm)



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

Ordering Information

HEPC-	☐	☐	☐	☐	☐	☐	☐	☐
	Wavelength	Grade	Configuration	Ratio	Port	Fiber Type		Connector Type*
	1060=1 1310=3 1550=5 980=9 1600=6 2000=2 Special=0	P = 1 S = 2 U = 3 Special=0	Slow axis working, Fast axis blocked=1 Both axes working=2 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 tube=3 Special= 0	Panda=1 Special=0	None = 1 FC / PC = 2 FC / APC = 3 SC / PC = 4 SC / APC = 5 ST / PC = 6 LC = 7 Special = 0

*The default connector key is aligned to slow axis
Each connector adds 0.3dB IL, 5dB RL, and 2dB RE increases