

# 1x2, 2x2 Polarization Maintaining Coupler

(patent pending)

## Product Description

Agiltron's 1x2, 2x2 Polarization Maintaining (PM) Coupler is used for monitoring or splitting optical signals in Polarization Maintaining fiber. The component is available in any coupling ratio from 1% to 50%. Employing Agiltron's proven advanced micro-optic design, it features low insertion loss, epoxy-free optical path, high extinction ratio, compact package, high reliability, and high stability. These high quality components have excellent characteristics, making them an ideal choice for application in fiber amplifier systems, pump lasers, and optical fiber sensors.



## Performance Specifications

Parameter	Min	Max	Unit
Operating Wavelength <sup>1</sup>	1310±40, 1550±40		nm
Excess Loss <sup>2</sup>	0.4	0.9	dB
Extinction Ratio <sup>2</sup> (ER)	18	22	dB
Uniformity	0.7		dB
Wavelength Dependent Loss	< 0.2		dB
Directivity	> 50		dB
Return Loss <sup>2</sup>	> 50		dB
Polarization Alignment	Slow Axis or Fast Axis		
Optical Power Handling	< 500		mW
Operating Temperature Range	0 ~ 70		°C
Storage Temperature	-40 ~ 85		°C
Fiber Type	Panda PM Fiber		
Package Dimension	Φ5.5x 34; Φ3.2x 28		mm

<sup>1</sup> Other wavelength available

<sup>2</sup> Excluding connectors

## Features

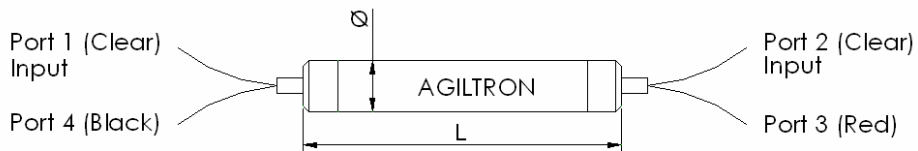
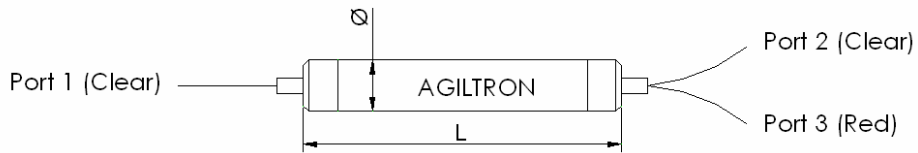
- Low Insertion Loss
- Epoxy -Free Optical Path
- High Extinction Ratio
- Compact Package
- High Reliability & Stability
- Cost Effective

## Applications

- Optical Fiber Amplifier
- Fiber Optic Sensor
- Instrumentation

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## Mechanical Dimensions (mm)



## Ordering Information

MOPC-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Type	Wavelength	Coupling Ratio	Package	Fiber		Fiber Length	Connector
	1x2 = 12 2x2 = 22 Special = 0	1310 = 3 1550 = 5 C band = C L Band = L *C+L = 2 *Special = 0	1% = 1 2% = 2 3% = 3 5% = 5 10% = A 20% = B 30% = C 40% = D 50% = E Special = 0	Ø3.2x28 = 3 Ø3.8x30 = 2 Ø5.5x34 = 1  Special = 0	Panda 250um = 2 Panda 400um = 4 Panda RC80 = 8 Special=0	Bare fiber = 1 Tight buffer = 2 900um loose tube = 3	0.25m = 1 0.5m = 2 1.0m = 3 1.5m = 4 2.0m = 5 Special = 0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC = 7 Special = 0

\* Excess Loss higher than standard