

# 1550nm 2x2 Coupler With Reduced Cladding PM Fiber

(patents pending)

## Product Description

Agiltron's 2x2 Polarization Maintaining (PM) Coupler are used for monitoring or splitting optical signal in Reduced Cladding Polarization Maintaining fiber. With Agiltron's advanced micro-optic design, it features low insertion loss, epoxy-free optical path, high extinction ratio, compact package, and high reliability and 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

CPRP 2x2 RC PM Coupler	Specification	Unit
Operating Wavelength ( $\lambda_o$ )	1550 $\pm$ 20	nm
Split Ratio *	50:50	%
Maximum Excessive Insertion Loss (Over $\lambda_o$ , 23°C, excluding connector)	$\leq$ 0.6	dB
Peak Extinction Ratio (Over $\lambda_o$ , 23°C)	$\geq$ 22	dB
Minimum Extinction Ratio (Over $\lambda_o$ , 23°C)	$\geq$ 20	dB
Polarization Dependant Loss	$\leq$ 0.2	dB
Polarization Alignment **	Fast Axis	
Optical Fiber	RC Panda PM Fiber (80 $\mu$ m/165 $\mu$ m)	
Operating Temperature	0 ~ +70	°C
Storage Temperature	-40 ~ +85	°C
Optical Power Handling	$\leq$ 300	mW
Package Dimensions	$\varnothing$ 3.5xL28 or $\varnothing$ 5.5xL34	mm
* Split ratio from 1% to 49% also available		
** Optional alignment to slow axis		

## Features

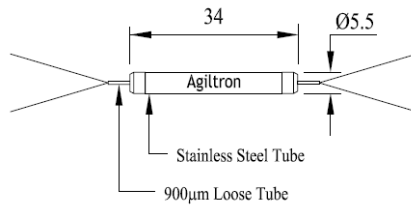
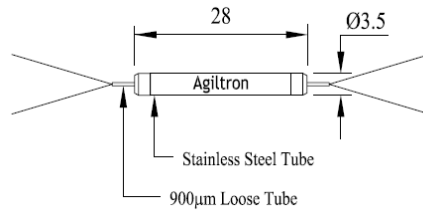
- Low Insertion Loss
- Epoxy-free Optical Path
- High Extinction Ratio
- Compact Package
- Cost Effective

## Applications

- Optical Fiber Amplifier
- Fiberoptic Sensor
- Instrumentation

# 1550nm 2x2 Coupler With Reduced Cladding PM Fiber

## Package Dimensions



## Ordering Information

CPRP-	22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type	Wavelength	Grade	Package Type	Fiber Type	Fiber Length	Connector Type	
2x2 Configuration=22	1550±20nm=5 Special=0	Standard=1 Special=0	$\text{Ø}3.5 \times 28=1$ $\text{Ø}5.5 \times 34=2$ Special=0	Panda RC 80/165=1 Special=0	Bare Fiber=1 900µm Loose Tube=3 Special=0	0.25m=1 0.5m=2 1.0m=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Special=0