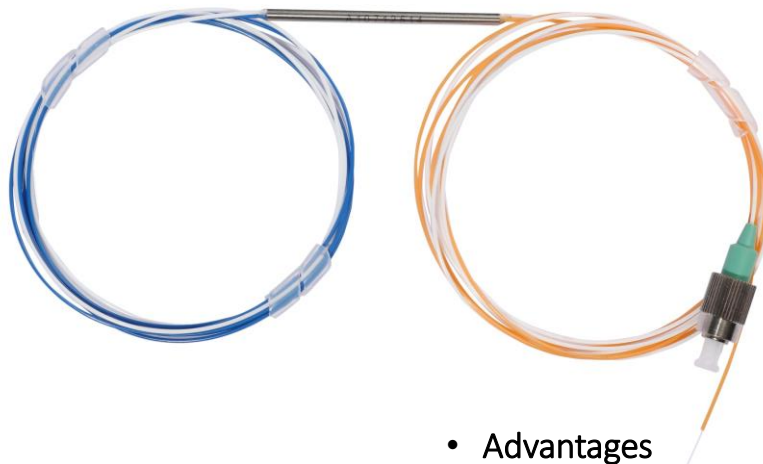


Standard 1064nm PM SM Coupler Datasheet

Widely used in optical sensors, optical amplifiers and fiber optic gyroscopes.



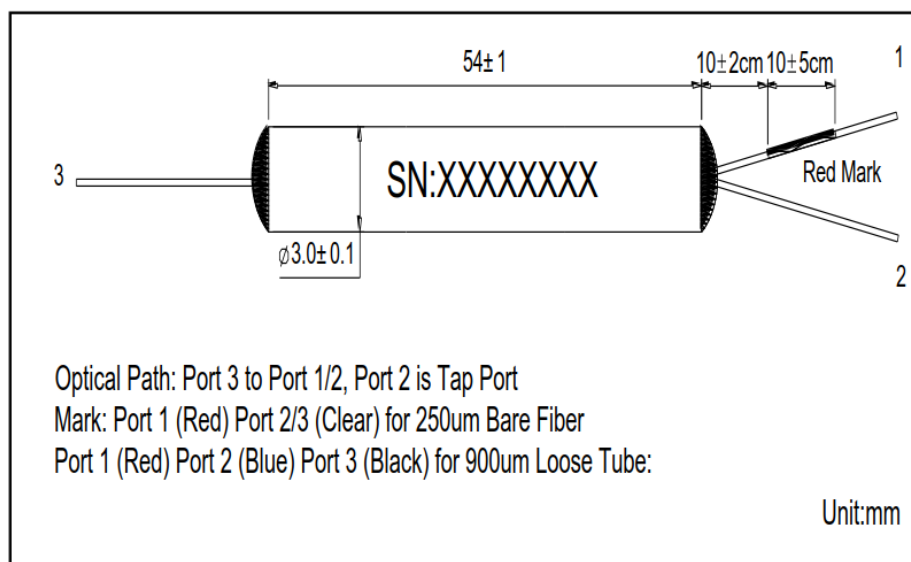
• Description

Manufactured using PANDA fiber, PM couplers allow them to maintain a high polarization extinction ratio (PER) when light is emitted along the slow axis of the fiber. As shown in the image to the right, the stress bar is parallel to the fiber core and applies stress, creating a birefringence in the fiber core, thereby achieving a deflection preserving operation. These 1x2 polarizing (PM) fiber couplers are designed to operate at 1064 nm, and OPTICO is available in a variety of spectral ratios.

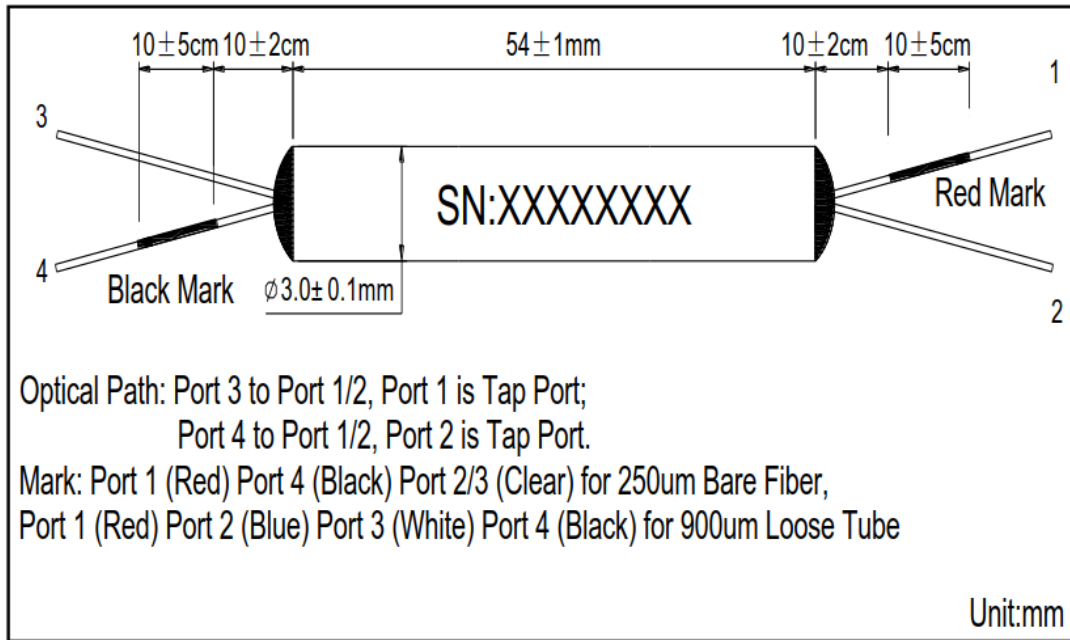
• Advantages

- Low insertion loss and high return loss
- High Polarization Extinction Ratio (PER)
- High reliability and stability
- High quality connectors
- Types of ratio are available
- High-low temperature cycle test
- 100% tested before delivery

• Transmission Drawing(Unit: mm)



1x2 PM Coupler



2x2 PM Coupler

• OPTICO 1064nm PM Coupler Parameter:

Specification	Values								
Center wavelength(nm)	1064								
Operating wavelength(nm)	±10								
Coupling ratio(%)	1/99	2/98	3/97	5/95	10/90	20/80	30/70	40/60	50/50
Max. Excess Coupling Ratio Tolerance(%)	±0.5	±0.8	±1.2	±1.5	±2.2	±2.5	±3.0	±4.0	±5.0
Max. Excess Loss(dB)	0.8								
Min. Extinction Ratio	NA/17	14/17				17/17			
Min. Return loss(dB)	50								
Max. Optical Power (mW)	500								
Max. Tensile Load(N)	5								
Temperature(°C)	-40~+75								
Fiber Type	PM-10/125 Fiber(FUD-3460)								