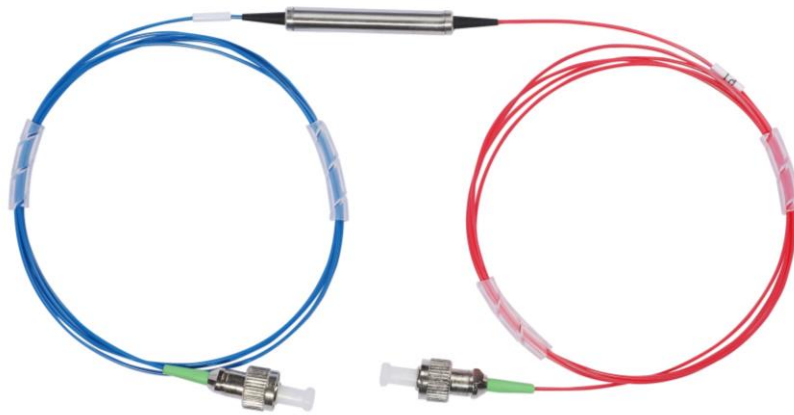


# 1064nm Polarization Maintaining Isolator Datasheet

AN IDEAL OPTICAL DEVICE FOR OPTICAL FIBER AMPLIFIER/FIBER OPTIC SENSOR/INSTRUMENTATION



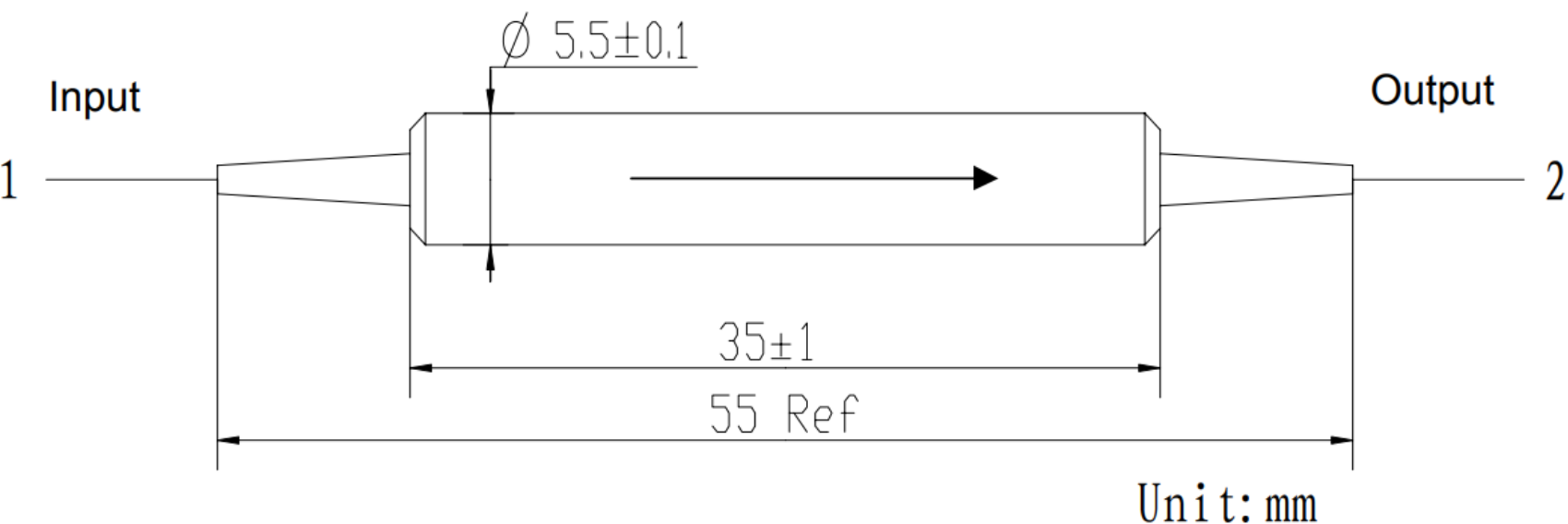
## • Description

The 1064nm Polarization Maintaining Isolator is a two port micro-optic device built with PM panda fiber. The PM isolator features low insertion loss, high isolation, high extinction ratio and high reliability and stability. The device guides optical light in one direction and eliminates back reflection and back scattering in the reverse direction. The device can be built with bare fiber, or 900um jacket cable.

## • Features

- Low insertion loss
- High Power Handling
- High Isolation
- Low PDL
- Low cost
- Widely used in Optical fiber Amplifier/Fiber Optic Sensor/Instrumentation.

## • Drawing view(unit: mm):



Specifications:

- Above specifications are for device without connector.
- For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.

Parameter	Values			
	Single Stage		Dual Stage	
Grade	Grade P	Grade A	Grade P	Grade A
Center wavelength(nm)	1064			
Operating Wavelength Range(nm)	±5			
Typ. Peak Isolation(dB)	40	38	55	52
Min. Isolation@23°C(dB)	35	32	45	42
Typ. Insertion loss@23°C (dB)	1.5	1.6	2.4	2.6
Max. Insertion loss@-5~50°C (dB)	1.8	2.0	3.2	3.4
Min. Extinction Ratio(only for B type)(dB)	20	18	20	18
Min. Extinction Ratio(only for F type)(dB)	23	23	23	23
Min. Return loss(Input/Output)(dB)	55/50			
Max. Optical Power(CW)(mW)	300			
Max. Tensile Load(N)	5			
Fiber Type	PM 980 Panda Fiber			
Operating Temperature(°C)	-5~+50			
Storage Temperature(°C)	-40~+85			

**Ordering Information :**

**OPM-①①-②-③-④-⑤⑤-⑥⑥-⑦**

①①: Wavelength

06 - 1064nm

②: Grade

P - Premium Grade

A - A Grade

③: Stage

S - Single Stage

D - Dual Stage

④: Axis Alignment

F - Fast Axis Blocked

B - Both Axis Working

⑤⑤: Connector Type on Port 1 & 2

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

⑥⑥: Fiber Jacket on Port 1 & 2

B - 250um Panda Fiber

L - 900um Loose Tube Panda Fiber

S - Specify

⑦: Fiber Length

0.8 - 0.8m

S - Specify