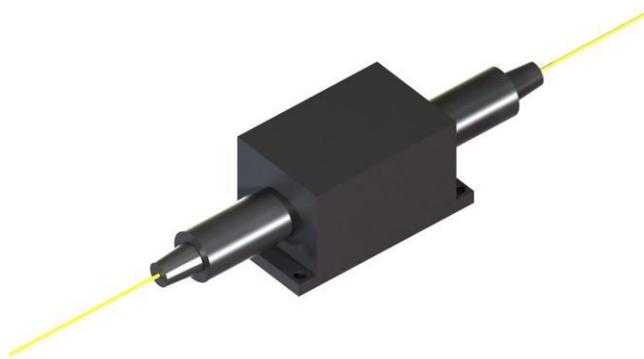


## PM Optical Isolator (Single-Stage) 1064nm

0.3W FC/APC



- **Product Description**

Idealphotonics offers a broad range of fiber optic isolators within the wavelength range of 780-1310nm. These isolators can be coupled with any single-mode fiber equipment purchased from the company (such as lasers, SLDs, SOAs, and gain modules). In this configuration, the device is characterized by the isolator, with measurement reports showing the performance of the OI output. The equipment can be spliced to prevent additional loss and feedback at the FC/APC connector. For fiber optic isolators within the 1060-1310nm wavelength range, the devices feature compact (55x5.5x5.5mm) lightweight packaging with a maximum input power of 300-500mW. In the shorter range (780-1055nm), another material is used that absorbs less optical power, and the OI is provided in a larger (up

to 118x37x35mm) and heavier metal package. High-power OIs use the same material to achieve input powers of up to 1W input power.

## ● Product features

High isolation、 Low insertion loss、 Fast axis blocked

## ● Part Number

MP-ISO-F-1064-A-S-PA-1

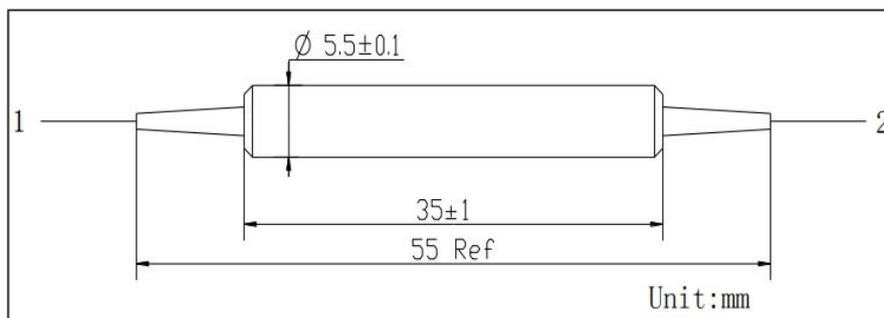
## ● Application area

Light-sources isolation

## ● Core parameters

Wavelength	Single/Double Stage	Isolation	Optical Power
1064nm	Single	40dB	0.3W

## ● Dimension Drawing





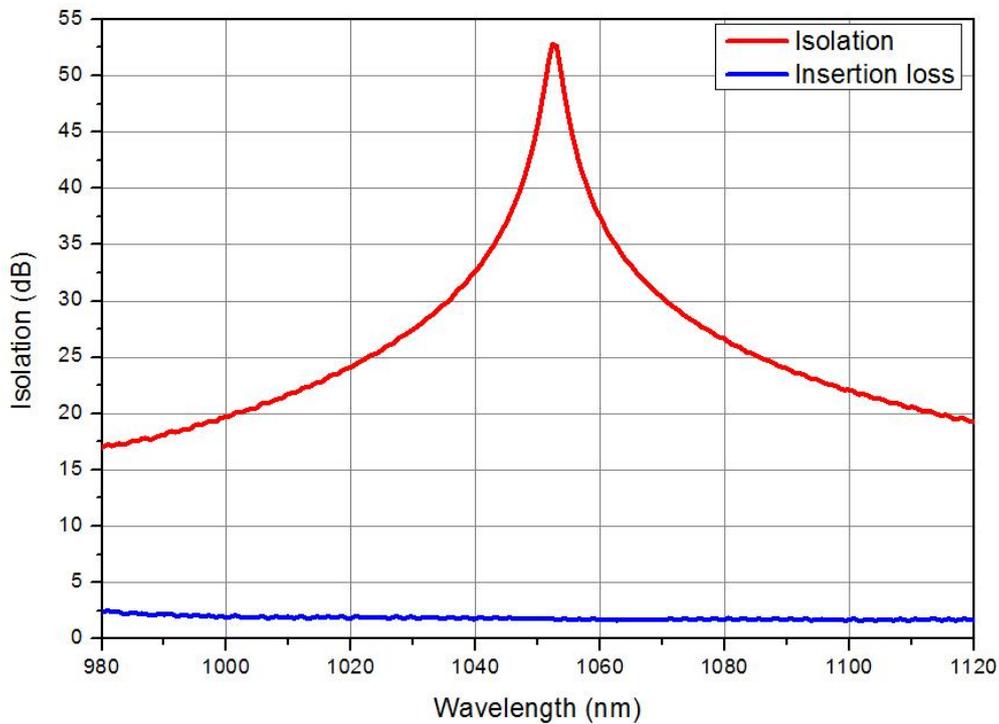
## ● General Parameters

Specifications			
Parameter	Min	Typical	Max
Single/Double Stage		Single	
Center Wavelength		1064	
Peak Isolation	35	40	
Insertion Loss		1.5	1.8
Return Loss (Input/Output)	55/55		
Extinction Ratio	23		
Optical Power (CW)			300
Maximum Tension Load			5
Operating Temperature	-5		50
Storage Temperature	-40		85

Parameter	Panda PM980 Fiber	Unit
Mode Field Diameter	$6.6 \pm 1$	$\mu\text{m}$
Cutoff Wavelength	$920 \pm 50$	nm
Cladding Diameter	$125 \pm 1$	$\mu\text{m}$
Coating Diameter	$245 \pm 15$	$\mu\text{m}$
Core-to-Cladding Offset	$\leq 0.5$	$\mu\text{m}$
Length (per port)	$1.0 \pm 0.2$	m
Connector	FC/APC	
Connector Alignment with Panda Fiber:		

Parameter	Panda PM980 Fiber	Unit

## General Parameters



## Typical parameters of fiber optic isolators

\* @Max10mW Reverse optical power.

Single/ Bipolar Stage	wavel ength	Peak isolat ion*	inserti on loss	Retur n Loss	extinc tion ratio	Input optical power(CW) (Direct optical	Fiber type	Package Size(LWH)



						power)		
	nm	dB	dB	dB	dB	W		
single	780	30	1	50	20	0.3	PM780	91x27x28
single	808	30	1	50	20	0.3	PM780	91x27x28
single	850	35	1	50	20	0.3	PM850	91x27x28
single	980	35	1	50	20	0.3	PM980	91x27x28
single	1025	30	1.2	50	20	1	PM980	118x37x35
single	1025	30	1.2	50		1	HI1060	118x37x35
single	1030	26	1	50	20	1	PM980	118x37x35
single	1030	26	1	50		1	HI1060	118x37x35
single	1030	22	4.7	55	23	0.08	PM980	55×5.5×5.5
single	1030	22	4	55		0.08	HI1060	55×5.5×5.5
single	1040	35	1	50	20	1	PM980	118x37x35
single	1040	35	1	50		1	HI1060	118x37x35
single	1040	30	4.2	55	23	0.1	PM980	55×5.5×5.5
single	1040	30	4.2	55	23	0.1	PM980	55×5.5×5.5
single	1050	50	2.5	50	20	1	PM980	118x37x35
single	1050	40	2.9	55	23	0.15	PM980	55×5.5×5.5



single	1055	35	1	50	20	1	PM980	118x37x35
single	1055	35	1	50		1	HI1060	118x37x35
single	1055	40	2.6	55	23	0.2	PM980	55×5.5×5.5
single	1055	40	2.6	55		0.2	HI1060	55×5.5×5.5
single	1064	26	1	55		1-5	HI1060	35x5x5
single	1064	40	1.8	55	23	0.3	PM980	55×5.5×5.5
single	1064	40	1.8	55		0.3	HI1060	55×5.5×5.5
double	1064	55	3.2	55	20	0.3	PM980	55×5.5×5.5
single	1085	35	1	50	20	1	PM980	118x37x35
single	1085	35	1	50		1	HI1060	118x37x35
single	1085	30	1.8	55	23	0.3	PM980	55×5.5×5.5
single	1085	30	1.8	55		0.3	HI1060	55×5.5×5.5
single	1095	30	1	50	20	1	PM980	118x37x35
single	1095	30	1	50		1	HI1060	118x37x35
single	1085	28	1.8	55	23	0.3	PM980	55×5.5×5.5
single	1085	28	1.8	55		0.3	HI1060	55×5.5×5.5
single	1120	30	1.7	50	21	0.3	PM980	55×5.5×5.5



double	1120	40	2.8	50	21	0.3	PM980	55×5.5×5.5
single	1150	20	2	55	20	0.3	PM980	55×5.5×5.5
double	1150	30	2.8	55	20	0.3	PM980	55×5.5×5.5
double	1178	25	2	50	20	0.35	PM980	55×5.5×5.5
double	1188	20	2.1	50	20	0.35	PM980	55×5.5×5.5
double	1250	30	1.2	55	23	0.4	PM980	55×5.5×5.5
double	1310	58	0.6	55	23	0.5	PM1300	55×5.5×5.5