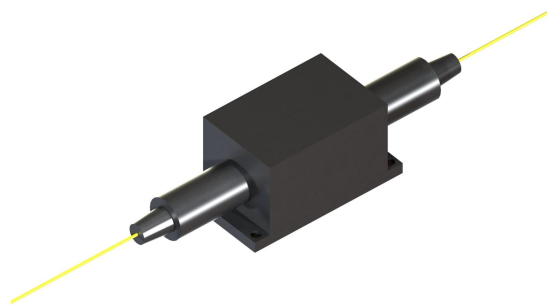


PM Optical Isolator (Single-Stage)

1064nm 0.3mW 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 (55×5.5×5.5mm) 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.

● Part Number

PMOI-1064-SS-11-BB

● Product features

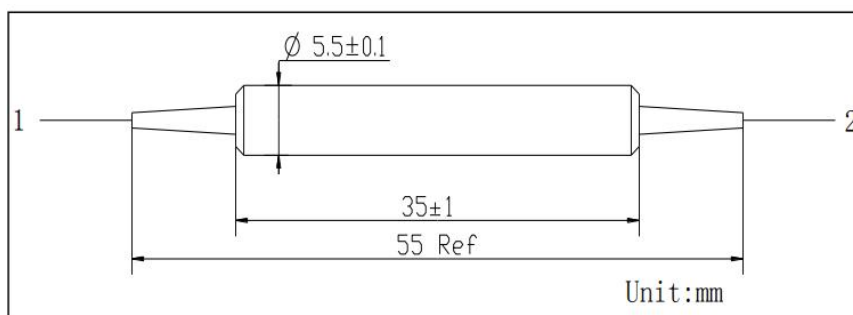
High Isolation、 Low Insertion Loss、 Fast Axis Blocked

● Application area

Light Source Isolation

Parameters

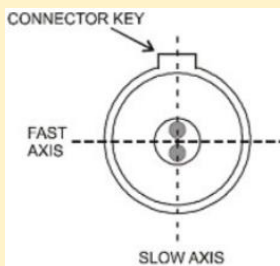
Dimensional Drawing



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 ± 1	μm
Cutoff Wavelength	920 ± 50	nm
Cladding Diameter	125 ± 1	μm
Coating Diameter	245 ± 15	μm
Core-to-Cladding Offset	≤ 0.5	μm
Length (per port)	1.0 ± 0.2	m
Connector	FC/APC	
Connector Alignment with Panda Fiber:	 The diagram shows a circular cross-section of a fiber connector. A dashed horizontal line is labeled 'FAST AXIS' and a dashed vertical line is labeled 'SLOW AXIS'. A small rectangular feature at the top is labeled 'CONNECTOR KEY' with an arrow pointing to it.	

Model Explanations:

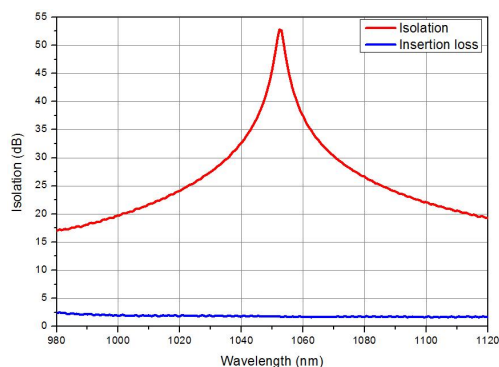
PMOI-1064-SS-①①-②②

① Connector Type on Port 1 & 2: 1 - FC/APC, N - none

② Fiber Jacket on Port 1 & 2: B - 250um Panda Fiber, L - 900um Loose Tube

Panda Fiber Example: PMOI-1064-SS-N1-BB

General Parameters:



Typical parameters of fiber optic isolators

* @Max10mW Reverse optical power.

model	Single/Bi polar Stage	wavele ngth	Peak isolati on*	insert ion loss	Retu rn Loss	extinct ion ratio	Input optical power(CW) (Direct optical power)	Fiber type	Package Size(LWH)
		nm	dB	dB	dB	dB	W		mm
PMOI-780-SS	single	780	30	1	50	20	0.3	PM780	91x27x28
PMOI-808-SS	single	808	30	1	50	20	0.3	PM780	91x27x28
PMOI-850-SS	single	850	35	1	50	20	0.3	PM850	91x27x28
PMOI-980-SS	single	980	35	1	50	20	0.3	PM980	91x27x28
PMOI-1025-SS-HP	single	1025	30	1.2	50	20	1	PM980	118x37x35
HIOI-1025-SS-HP	single	1025	30	1.2	50		1	HI1060	118x37x35
PMOI-1030-SS-HP	single	1030	26	1	50	20	1	PM980	118x37x35
HIOI-1030-SS-HP	single	1030	26	1	50		1	HI1060	118x37x35
PMOI-1030-SS	single	1030	22	4.7	55	23	0.08	PM980	55×5.5×5.5
HIOI-1030-SS	single	1030	22	4	55		0.08	HI1060	55×5.5×5.5
PMOI-1040-SS-HP	single	1040	35	1	50	20	1	PM980	118x37x35
HIOI-1040-SS-HP	single	1040	35	1	50		1	HI1060	118x37x35

PMOI-1040-SS	single	1040	30	4.2	55	23	0.1	PM9 80	55×5.5 ×5.5
HIOI-1040-SS	single	1040	30	4.2	55	23	0.1	PM9 80	55×5.5 ×5.5
PMOI-1050-SS-HP	single	1050	50	2.5	50	20	1	PM9 80	118x37x 35
PMOI-1050-SS	single	1050	40	2.9	55	23	0.15	PM9 80	55×5.5 ×5.5
PMOI-1055-SS-HP	single	1055	35	1	50	20	1	PM9 80	118x37x 35
HIOI-1055-SS-HP	single	1055	35	1	50		1	HI10 60	118x37x 35
PMOI-1055-SS	single	1055	40	2.6	55	23	0.2	PM9 80	55×5.5 ×5.5
HIOI-1055-SS	single	1055	40	2.6	55		0.2	HI10 60	55×5.5 ×5.5
HIOI-1064-SS-HP	single	1064	26	1	55		1-5	HI10 60	35x5x5
PMOI-1064-SS	single	1064	40	1.8	55	23	0.3	PM9 80	55×5.5 ×5.5
HIOI-1064-SS	single	1064	40	1.8	55		0.3	HI10 60	55×5.5 ×5.5
PMOI-1064-DS	double	1064	55	3.2	55	20	0.3	PM9 80	55×5.5 ×5.5
PMOI-1085-SS-HP	single	1085	35	1	50	20	1	PM9 80	118x37x 35
HIOI-1085-SS-HP	single	1085	35	1	50		1	HI10 60	118x37x 35
PMOI-1085-SS	single	1085	30	1.8	55	23	0.3	PM9 80	55×5.5 ×5.5
HIOI-1085-SS	single	1085	30	1.8	55		0.3	HI10 60	55×5.5 ×5.5

PMOI-1095-SS-HP	single	1095	30	1	50	20	1	PM9 80	118x37x 35
HIOI-1095-SS-HP	single	1095	30	1	50		1	HI10 60	118x37x 35
PMOI-1095-SS	single	1085	28	1.8	55	23	0.3	PM9 80	55×5.5 ×5.5
HIOI-1095-SS	single	1085	28	1.8	55		0.3	HI10 60	55×5.5 ×5.5
PMOI-1120-SS	single	1120	30	1.7	50	21	0.3	PM9 80	55×5.5 ×5.5
PMOI-1120-DS	double	1120	40	2.8	50	21	0.3	PM9 80	55×5.5 ×5.5
PMOI-1150-SS	single	1150	20	2	55	20	0.3	PM9 80	55×5.5 ×5.5
PMOI-1150-DS	double	1150	30	2.8	55	20	0.3	PM9 80	55×5.5 ×5.5
PMOI-1178-DS	double	1178	25	2	50	20	0.35	PM9 80	55×5.5 ×5.5
PMOI-1188-DS	double	1188	20	2.1	50	20	0.35	PM9 80	55×5.5 ×5.5
PMOI-1250-DS	double	1250	30	1.2	55	23	0.4	PM9 80	55×5.5 ×5.5
PMOI-1310-DS	double	1310	58	0.6	55	23	0.5	PM1 300	55×5.5 ×5.5