



Polarization Maintaining Fiber Isolator

I&Optics' PM fiber isolator can transmit the signal with very low loss and block the reversed light. It features high handling power, low insertion loss, high extinction ratio and high isolation. It can be used in lasers, LiDARs, telecom, sensors, instruments, testing systems and R&D.

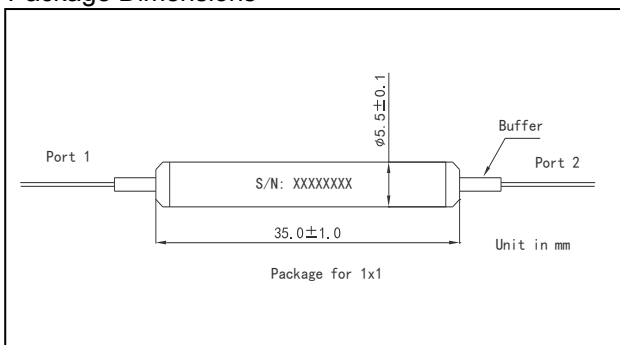
Specification

Parameter	Test Condition	Unit	Value	
Port Configuration	-	-	1x1	
Isolator Stage Number	-	-	Single	Dual
Working Axis of PM Fiber	-	-	Both Axes Working or Fast Axis Blocked	
Nominal Center Wavelength	Port 1 to Port 2	nm	1310, 1450, 1550 or Specify	
Operating Wavelength Range	Port 1 to Port 2	nm	+/-20	
Max. Insertion Loss	Port 1 to Port 2	dB	0.5, Typ. 0.35	0.6, Typ. 0.45
Min. Reversed Isolation	at 23°C, Port 2 to Port 1	dB	26, Peak Typ. 40	50, Peak Typ. 55
Min. Extinction Ratio	at 23°C, at Slow or Fast Axis, Port 1 to Port 2	dB	20, Typ. 22 (B-Type), 25, Typ. 28 (F-Type)	
Min. Return Loss	Port 1/2	dB	60/55	
Max. Power Handling Rate	CW	mW	500 or Specify	
Fiber Type	-	-	PM Panda Fiber or Specify	
Max. Fiber Tensile Load	-	N	5	
Operating Temperature	-	°C	-5 to 70	
Storage Temperature	-	°C	-40 to 85	

Above values are for device without connectors. For device with connectors, IL will be 0.3dB higher, ER will be 2dB lower and return loss will be 5dB lower.

The default alignment of working polarization and connector key is to slow axis of fiber. Special requirement please call.

Package Dimensions



Ordering Informations

PMFI-①-②-③-④-⑤-⑥

① - Center Wavelength

31 - 1310.0nm

45 - 1450.0nm

55 - 1550.0nm

SS - Specify

③ - Working Axis of Fiber

B - Both Axes Working

F - Fast Axis Blocked

④ - Connector Type on port 1/2

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

⑥ - Fiber Length

0.8 - 0.8m

② - Isolator Stage Number

S - Single Stage

D - Dual Stage

⑤ - Fiber Jacket on Port 1/2

B - Bare Fiber

L - 900um Loose Tube