



High Power Polarization Maintaining Isolator

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

Specification

Parameter	Test Condition	Unit	Value	
Port Configuration	-	-	1x1	
Isolator Stage Number	-	-	Standard	Broad Band
Working Axis of PM Fiber	-	-	Both Axes Working or Fast Axis Blocked	
Nominal Center Wavelength	Port 1 to Port 2	nm	1030, 1064 or Specify	
Operating Wavelength Range	Port 1 to Port 2	nm	+/-20	+/-40
Max. Pass Band IL	Port 1 to Port 2	dB	1.0, Typ. 0.6	1.2, Typ. 0.8
Min. Reversed Isolation	at 23°C, Port 2 to Port 1	dB	25, Peak Typ. 38	28, Peak Typ. 35
Min. Extinction Ratio	at 23°C, CWL, at Slow or Fast Axis, Port 1 to Port 2	dB	20, Typ. 22 (B-Type), 25, Typ. 28 (F-Type)	
Min. Return Loss	-	dB	50	
Max. Power Handling Rate	CW, Total Power	W	1, 3, 5, 10, 20 or Specify	
Fiber Type	-	-	PM 980 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, return loss will be 5dB lower and handling power will be only 1W.

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

Package Dimensions

Detailed Informations And Dimensions Please Contact Us. Customized Design Is Available Upon Request.

Ordering Informations

HPMI-①-②-③-④-⑤-⑥-⑦

① - Center Wavelength

03 - 1030nm

06 - 1064nm

SS - Specify

③ - Working Axis of Fiber

B - Both Axes Working

F - Fast Axis Blocked

④ - handling Power Rate

01 - 1W

03 - 3W

05 - 5W

10 - 10W

20 - 20W

SS - Specify

⑤ - Connector Type on port 1/2

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

⑥ - Fiber Jacket on Port 1/2

B - Bare Fiber

L - 900um Loose Tube

⑦ - Fiber Length

0.8 - 0.8m