



High Power Fiber Isolator

I&Optics' high power 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, low polarization dependent loss and high isolation. It can be used in lasers, free space telecom, sensors, instruments, testing systems and R&D.

Specification

Parameter	Test Condition	Unit	Value	
Port Configuration	-	-	1x1	
Isolator Stage Number	-	-	Standard	Broad Band
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. Insertion Loss	Port 1 to Port 2	dB	1.0, Typ. 0.6	1.4, Typ. 0.8
Min. Reversed Isolation	at 23°C, Port 2 to Port 1	dB	25, Peak Typ. 38	28, Peak Typ. 35
Max. PDL	at 23°C, CWL, Port 1 to Port 2	dB	0.2, Typ. 0.1	
Min. Return Loss	-	dB	50	
Max. Power Handling Rate	CW, Total Power	W	1, 3, 5, 10, 20 or Specify	
Fiber Type	-	-	Hi 1060 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, return loss will be 5dB lower and handling power will be only 1W.

Package Dimensions

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

Ordering Informations

HPFI-①-②-③-④-⑤-⑥

① - Center Wavelength

03 - 1030nm

06 - 1064nm

SS - Specify

② - Isolator Type

S - Standard

B - Broad Band

③ - handling Power Rate

01 - 1W

03 - 3W

05 - 5W

10 - 10W

20 - 20W

SS - Specify

④ - Connector Type on port 1/2

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

⑤ - Fiber Jacket on Port 1/2

B - Bare Fiber

L - 900um Loose Tube

⑥ - Fiber Length

0.8 - 0.8m