Single Mode Fiber Polarization Insensitive Isolator

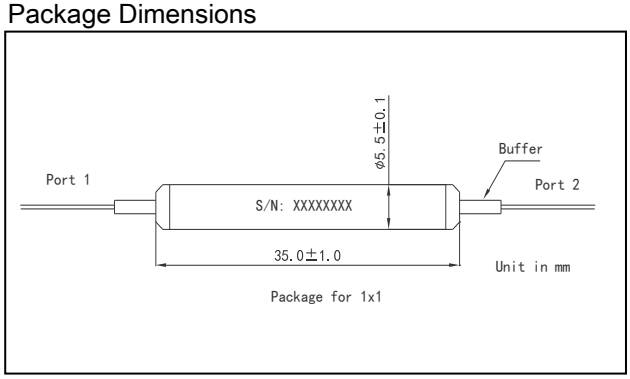
I&Optics' SM fiber isolator can transmit the signal with very low loss and block the reversed light. It features high handling power, low insertion loss, low polarization dependent loss and high isolation. It can be used in lasers, LiDARs, telecom, sensors, instruments, testing systems and R&D.

Specification

Parameter	Test Condition	Unit	Value	
Port Configuration	-	-	1x1	
Isolator Stage Number	-	-	Single	Dual
Nominal Center Wavelength	Port 1 to Port 2	nm	1310, 1450, 1550 or Specify	
Operaing Wavelength Range	Port 1 to Port 2	nm	+/-20	
Max. Insertion Loss	at CWL, Port 1 to Port 2	dB	0.5, Typ. 0.35	0.6, Typ. 0.45
Min. Reversed Isolation	at 23℃, Port 2 to Port 1	dB	26, Peak Typ. 40	50, Peak Typ. 55
Max. Polarization Dependent Loss	at 23℃	dB	0.05	
Max. Polarization Mode Dispersion	-	ps	0.2	0.05
Min. Return Loss	Port 1/2	dB	60/55	
Max. Power Handling Rate	CW, Total Power	mW	500 or Specify	
Fiber Type	-	-	SMF-28e Fiber or Specify	
Max. Fiber Tensile Load	-	N	5	
Operating Temperature	-	℃	-5 to 70	
Storage Temperature	-	℃	-40 to 85	

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

Package Dimensions



Ordering Informations

SPII-①-②-③-④-⑤-⑥

① - Center Wavelength
31 - 1310nm
45 - 1450nm
55 - 1550nm
SS - Specify

③ - Connector Type on port 1/2
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC

④ - Fiber Jacket on Port 1/2
B - Bare Fiber
L - 900um Loose Tube

⑤ - Fiber Length
0.8 - 0.8m

② - Isolator Stage Number
S - Single Stage
D - Dual Satge