Single Mode Multi-Core Fiber Isolator

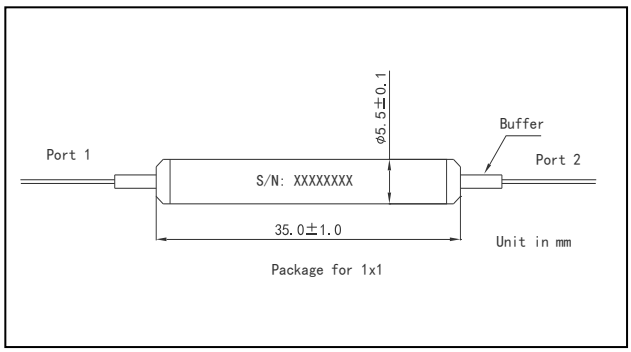
I&Optics' multicore fiber isolator can transmit the signal groups with very low loss and block the reversed lights to protect the system from damaging and fluctuating. It features high handling power, low insertion loss, low PMD, low PDL, high signal density and high isolation. It can be used in lasers, telecom, secret communications and R&D.

Specification

Parameter	Test Condition	Unit	Value	
Fiber Port Configuration	-	-	1x1	
Inner Core Number	-	-	2, 4, 7, 8 or Specify	
Isolator Stage Number	-	-	Single	Dual
Nominal Center Wavelength	Port 1 to Port 2	nm	1310, 1550 or Specify	
Operaing Wavelength Range	Port 1 to Port 2	nm	+/-20	
Max. Pass Band IL	Port 1 to Port 2	dB	0.9, Typ. 0.7	1.0, Typ. 0.8
Min. Reversed Isolation	at 23℃, Port 2 to Port 1	dB	25, Peak Typ. 38	50, Peak Typ. 55
Max. Polarization Dependent Loss	at 23℃, Port 1 to Port 2	dB	0.2, Typ. 0.1	0.25, Typ. 0.15
Max. Polarization Mode Dispersion	at 23℃, Port 1 to Port 2	ps	0.2	0.05
Min. Return Loss	-	dB	50	
Max. Power Handling Rate	CW	mW	300 / Core or Specify	
Fiber Type	-	-	Single Mode Multicore 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 0.7dB higher and return loss will be 5dB lower.

Package Dimensions



Ordering Informations

SMCI-①-②-③-④-⑤-⑥-⑦

① - Center Wavelength
31 - 1310.0nm
55 - 1550.0nm
SS - Specify

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

③ - Inner Core Number
2 - 2 Cores
4 - 4 Cores
7 - 7 Cores
8 - 8 Cores

④ - Multicore Fiber Type
SS - Specify

⑤ - Connector Type on port 1/2
3 - SC/UPC
4 - SC/APC
5 - LC/UPC

⑥ - Fiber Jacket on Port 1/2
B - Bare Fiber
L - 900um Loose Tube

⑦ - Fiber Length
0.6 - 0.6m