960~1000nm High Power PM Optical Isolator

FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Research Labs
- Laser Systems

SPECIFICATIONS

Parameter		Unit	Single Stage	Dual Stage D Type	Dual Stage L Type
Center Wavelength (λc)		nm	975, 980, 990, 1000		
Operating Wavelength Range		nm	+/-10		
Peak Isolation (Typ.)		dB	28	46	
Min. Isolation (23°C)		dB	22	40	
Typical Insertion Loss (λc, 23°C)		dB	0.9	1.1	1.3
Max. Insertion Loss (λc, 23°C)		dB	1.5	1.8	
Optical Return Loss (Input/Output)		dB	50/50		
Extinction Ratio (Min.)		dB	18		
Working Mode	S Type	-	Can only work in Slow Axis		
	F Type	-	Can work both in Slow Axis and Fast Axis		
Configuration		-	Standard: 2-Port; Y Type: 3-Port, Backward Power Guide Out		
Fiber Type	Input&Output	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L)		
			10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W)		
			20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)		
	3rd Port (Y Type)	-	Same Fiber, Corr SM Fiber or 105/125um MM Fiber		
Fiber Tensile Load		N	5		
Maximum Optical Power (CW)		W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 40, 50, 60, 80, 100		
Max. Backward Optical Power (CW)		W	0.3, 0.5, 1, 2, 3, 5, 10		
Operating Temperature		°C	0~50		
Storage Temperature		°C	-20~75		

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

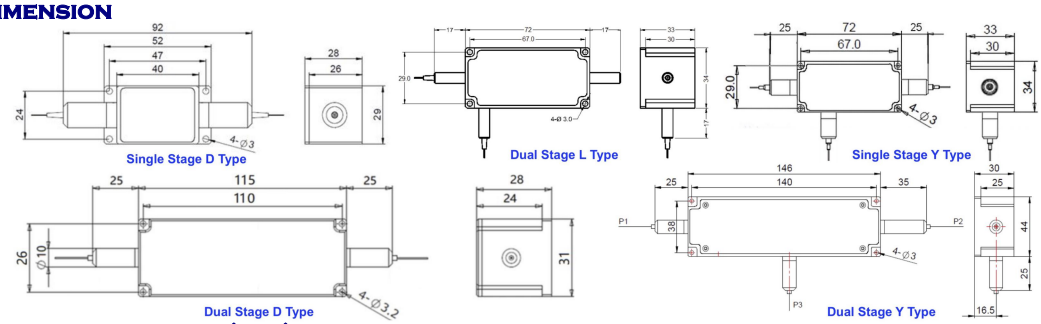
3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

4. Suggest to use Y type for >20W Optical Power or continuous backward power of ≥500mW.

5. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

6. Package dimensions may be different for different optical power, fiber type and configuration.

PACKAGE DIMENSION



ORDERING INFORMATION (PN)

FPIS-NNNN	- (C)	C	(C)	-HP NN	- (NN)	- C	C	NN	-CC/CCC
Center Wavelength	*Stage*	*Type*	*3rd Port Fiber*	*Optical Power*	*Backward Power*	*Fiber Type*	*Fiber Sleeve*	*Fiber Length*	*Connector Type*
975=975nm	D=D Type	S= S Type	Y= Same Fiber	1=1W	05=500mW	2=PM980Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
980=980nm	L=L Type	F= F Type	C= Corr. SM Fiber	3=3W	1=1W	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
990=990nm	*Blank* for Single		A=105/125um Fiber	10=10W	10=10W	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1000=1000nm			*Blank* for Standard	100=100W	*Blank* for 300mW	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector