1030nm High Power PM Optical Isolator

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks

SPECIFICATIONS

Parameter		Unit	Single Stage	Dual Stage D Type	Dual Stage L Type
Center Wavelength (λc)		nm	1030		
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	0.8	1.0	1.2
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 or 105/125um MM Fiber		
Fiber Tensile Load		N	5		
Maximum Optical Power (CW)		W	1, 2, 3, 5, 10, 15, 20, 30, 50, 60, 80, 100, 150, 200		
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.

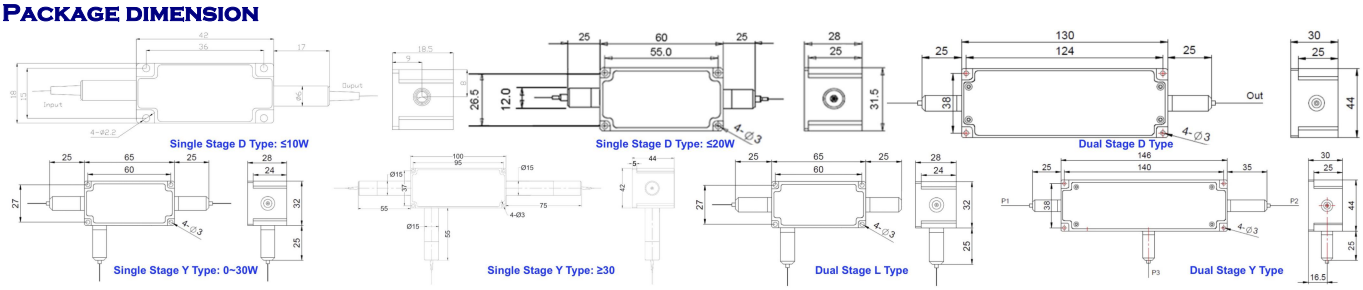
3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

4. Suggest to use Y type for >20W Optical Power or continuous backward power of ≥2W.

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 fiber type, configuration and optical power.

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
1030=1030nm	D=D Type	S= S Type	Y= Same Fiber	1=1W	05=500mW	2=PM980Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
	L=L Type	F= F Type	A=105/125um Fiber	3=3W	1=1W	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	Blank for Single		S=Corr. SM Fiber	10=10W	10=10W	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
			Blank for Standard	100=100W	Blank for 300mW	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector