960~1000nm High Power Dual Stage PM Isolator for Pulse Power

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	High Power Type
Center Wavelength (λc)		nm	975, 980, 990, 1000
Operating Wavelength Range		nm	+/-10
Peak Isolation (Typ.)		dB	50
Min. Isolation (23°C)		dB	40
Typical Insertion Loss (λc, 23°C)		dB	1.0
Max. Insertion Loss (λc, 23°C)		dB	1.6
Optical Return Loss (Input/Output)		dB	45/45
Extinction Ratio @ 23°C (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
Max. Average Optical Power		W	0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30, 40, 50
Max. Peak Power for Pulse		kW	0.1, 1, 2, 3, 5, 10, 15, 20
Max. Backward Average Power		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.

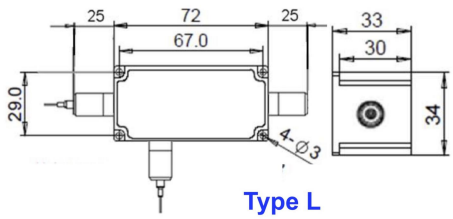
3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

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

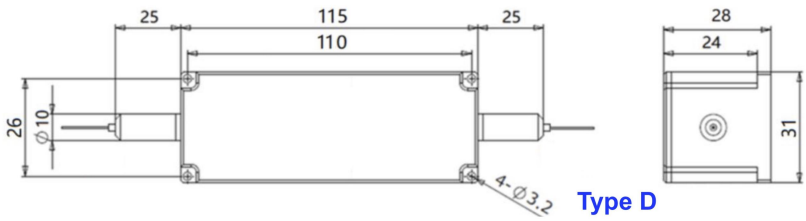
5. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

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

PACKAGE DIMENSION



Type L



Type D

ORDERING INFORMATION (PN)

FPIS-NNNN - C C (C) - H NN P NN - (NN) - C C NN - CC/CCC

Center Wavelength	Type	Type	3rd Port Fiber	Average Power	Peak Power	Backward Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
980=980nm	L=Type L	S= S Type	Y= Same Fiber	05=500mW	01= 100W	05=500mW	2=PM980Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
975=975nm	D=Type D	F= F Type	A=105/125um Fiber	1=1W	1=1kW	1=1W	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
990=990nm			Blank for Standard	10=10W	10=10kW	10=10W	Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1000=1000nm				30=30W	20=20kW	Blank for 300mW	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

RoHS Compliant