900~950nm High Power PM Isolator for Pulse Power

FEATURES

- High Isolation
- Epoxy-Free Optical Path
- High Reliability and Stability

APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- Transmitters and Fiber Lasers

SPECIFICATIONS

Parameter		Unit	High Power Type
Center Wavelength (λc)		nm	915, 930, 940, 950
Operating Wavelength Range		nm	+/-10
Peak Isolation (Typ.)		dB	25
Min. Isolation (23°C)		dB	20
Typical Insertion Loss (λc, 23°C)		dB	1.3
Max. Insertion Loss (λc, 23°C)		dB	1.8
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
Fiber Type	Input&Output	-	PM850 Fiber, PM980 Fiber or PM1060L Fiber (E)
			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	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 50, 60, 80, 100
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 0.7dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

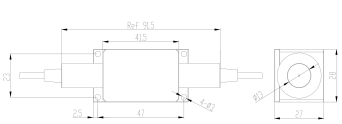
3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

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

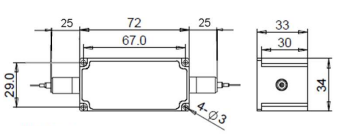
5. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

6. Package dimensions may be slightly different for different optical power.

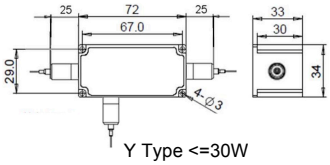
PACKAGE DIMENSION



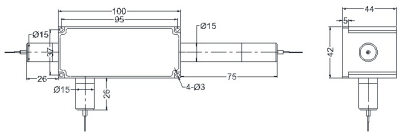
Standard <=5W



Standard <=20W



Y Type <=30W



Y Type >30W

ORDERING INFORMATION (PN)

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

Center Wavelength	Type	3rd Port Fiber	Average Power	Peak Power	Backward Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
915=915nm	S= S Type	Y= Same Fiber	05=500mW	01= 100W	05=500mW	2=PM850Fiber	B= Bare Fiber	05=0.5m	N=Without Connector
930=930nm	F= F Type	A=105/125um Fiber	1=1W	1=1kW	1=1W	H=PM980 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
940=940nm		Blank for Standard	10=10W	10=10kW	10=10W	E=PM1060L Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
950=950nm			100=100W	20=20kW	Blank for 300mW	R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector