2030~2070nm PM Inline Optical Isolator for Pulse Power

Features

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

Applications

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

Specifications

Parameter		Unit	Single Stage	Dual Stage	H Stage
Working Wavelength (λ)		nm	2030±20, 2050±20, 2070±10		
Isolation (λ, 23°C)		dB	≥16	≥30	≥25
Insertion Loss (λ, 23°C)		dB	≤1.3	≤1.6	≤1.6
Optical Return Loss (Input/Output)		dB	50/45	50/45	50/45
Extinction Ratio		dB	≥18		
Working Mode	S Type	-	Can only work in Slow Axis		
	F Type	-	Can work both in Slow Axis and Fast Axis		
Fiber Type		-	PM1550 Panda Fiber or PM1950 Fiber (V) 10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)		
Fiber Tensile Load		N	5		
Max. Average Optical Power		W	0.3, 0.5, 1, 2		3, 5, 10, 15, 20, 30, 40, 50
Max. Peak Power for pulse		kW	0.1, 1, 2, 3, 5, 10, 15, 20		
Operating Temperature		°C	0~50		
Storage Temperature		°C	-20~75		
Package Dimension	Stainless Steel Tube (SST)	mm	$^{\Phi}5.5x^{L}35$		See Drawing
	Metal Box-M	mm	$^{L}120x^{W}12x^{H}10$		

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

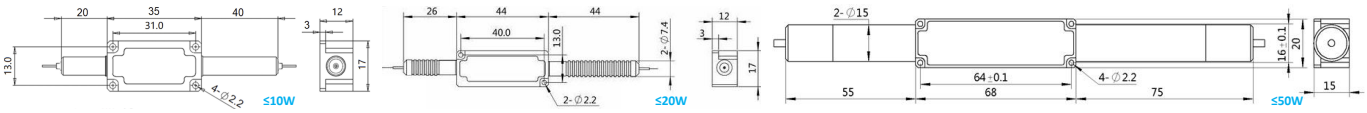
2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

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

4. 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.

5. Package size may be different for different power and fiber type.

Package Dimension (H Stage)



Ordering Information (PN)

FPIS-NNNN	- C	C	-H NN	PNN	- (C)	C	C	NN	- CC/CCC
Center Wavelength	*Stage*	*Type*	*Average Power*	*Peak Power*	*Package*	*Fiber Type*	*Fiber Sleeve*	*Fiber Length*	*Connector Type*
2030= 2030nm	S= Single Stage	S= S Type	03=300mW	01= 100W	M=Metal Box	2=PM1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
2050= 2050nm	D= Dual Stage	F= F Type	1= 1W	1=1kW	*Blank* for SST	V=PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
2070= 2070nm	H= H Stage		5= 5W	5=5kW	or >2W Power	O=10/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
			10=10W	10=10kW		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector