

## 1900~1970nm High Power PM Inline 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
- Laser Systems
- Research Labs

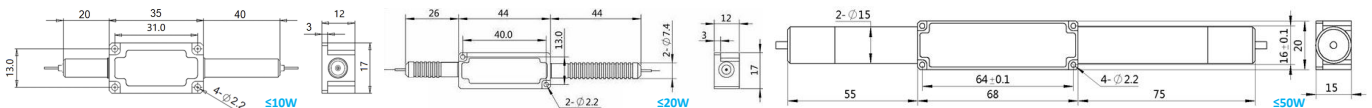


### SPECIFICATIONS

Parameter		Unit	Single Stage	Dual Stage	H Stage
Working Wavelength (λ)		nm	1900±10, 1930±20, 1950±20, 1970±20		
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		
Maximum Optical Power (CW)		W	1, 2,		3, 5, 10, 15, 20, 30, 40, 50
Operating Temperature		°C	0~50		
Storage Temperature		°C	-20~75		
Package	Stainless Steel Tube (SST)	mm	Φ5.5x <sup>L</sup> 35		See Drawing
Dimension	Metal Box-M	mm	<sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10		

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - 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.
  - Package size may be different for different power and fiber type.

### PACKAGE DIMENSION (H STAGE)



### ORDERING INFORMATION (PN)

FPIS-NNNN	- C	C	-HP NN	-(C)	C	C	NN	- CC/CCC
Center Wavelength	Stage	Type	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1900~1900nm	S= Single Stage	S= S Type	1~1W	M= Metal Box	2= PM1550 Fiber	B= Bare fiber	05~0.5m	N= Without Connector
1930~1930nm	D= Dual Stage	F= F Type	5~5W	Blank for SST	V= PM1950 Fiber	L= Loose Tube	10~1.0m	FC/APC=FC/APC Connector
1950~1950nm	H= H Stage		10~10W	or >2W Power	O= 10/130 PMDC Fiber	2= 2mm Cable	15~1.5m	LC/PC=LC/PC Connector
1970~1970nm			20~20W		R= 25/250 PMDC Fiber	3= 3mm Cable	20~2.0m	SC/UPC=SC/UPC Connector

