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, 60
Operating Temperature		°C	0~50		
Storage Temperature		°C	-20~75		
Package Dimension	Stainless Steel Tube (SST)	mm	Φ5.5xL38		See Drawing
	Metal Box-M	mm	L120xW12xH10		

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

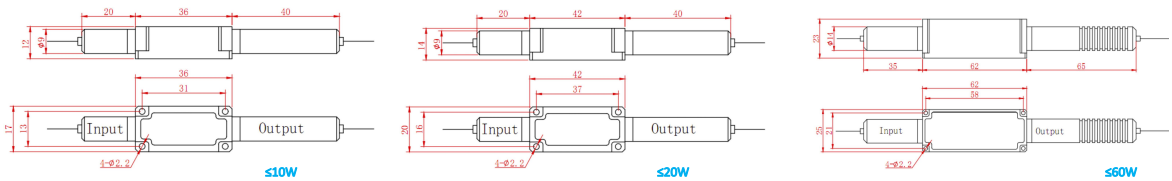
2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

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 -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=PM1550Fiber	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