

## High Power Polarization Maintaining Optical Isolator

### FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

### APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Transmitters and Fiber Lasers
- CATV Networks

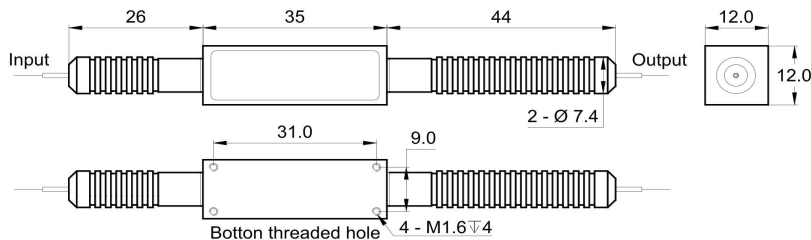


### SPECIFICATIONS

Parameter	Unit	Single Stage	Dual Stage	H Stage
Center Wavelength ( $\lambda_c$ )	nm	1310, 1480, 1550, 1590		
Peak Isolation (Typ.)	dB	42	58	35
Isolation ( $\lambda_c \pm 15\text{nm}$ , 23°C)	dB	$\geq 32$	$\geq 45$	$\geq 25$
Insertion Loss ( $\lambda_c$ , 23°C)	dB	$\leq 0.4$	$\leq 0.5$	$\leq 0.5$
Insertion Loss ( $\lambda_c \pm 20\text{nm}$ , 0-70°C)	dB	$\leq 0.55$	$\leq 0.65$	$\leq 0.8$
Optical Return Loss (Input/Output)	dB	55/50	55/50	55/50
Extinction Ratio	dB	$\geq 18$		
Working Mode	S Type	-	Can only work in Slow Axis	
	F Type	-	Can work both in Slow Axis and Fast Axis	
Fiber Type	-	PM1310/1550 Panda Fiber, 10/125um PMDC Fiber (O) 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q) 25/250um PMDC Fiber (R), 25/300um PMDC Fiber (G)		
Fiber Tensile Load	N	5		
Maximum Optical Power (CW)	W	1, 2, 3, 5, 10		15, 20, 30
Operating Temperature	°C	0~50		
Storage Temperature	°C	-40~85		
Package Dimension	Stainless Steel Tube (SST)	mm	$\phi 5.5 \times L^{35} (\leq 5W)$ , $\phi 6.0 \times L^{50} (> 5W)$	
	Metal Box-M	mm	$L^{120} \times W^{12} \times H^{10}$	
See Drawing				

- 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 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
1310-1310nm	S= Single Stage	S= S Type	1-1W	M= Metal Box	2=PM1310/1550 Fiber	B= Bare Fiber	05=0.5m	N= Without Connector
1550-1550nm	D= Dual Stage	F= F Type	3-3W	Blank for SST	0=10/125 PMDC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1480-1480nm	H= H Stage		5-5W		T=12/130 PMDC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1590-1590nm			10-10W		R=25/250 PMDC Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

