

## 1650nm High Power PM 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
Center Wavelength ( $\lambda_c$ )	nm	1650	
Isolation ( $\lambda_c \pm 5\text{nm}$ , 23°C)	dB	$\geq 20$	$\geq 40$
Insertion Loss ( $\lambda_c$ , 23°C)	dB	$\leq 0.8$	$\leq 1.1$
Insertion Loss ( $\lambda_c$ , 0-50°C)	dB	$\leq 1.0$	$\leq 1.4$
Optical Return Loss (Input/Output)	dB	50/50	50/50
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	-	PM1550 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	
Max. Optical Power (CW)	W	1, 2, 3, 5, 10	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package	Stainless Steel Tube (SST)	mm	$\phi 5.5 \times L38$ ( $\leq 5\text{W}$ ), $\phi 6.0 \times L50$ ( $> 5\text{W}$ )
Dimension	Metal Box-M	mm	$L120 \times W12 \times H10$

- 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.

### 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	
1650-1650nm	S= Single Stage D= Dual Stage	S= S Type F= F Type	1-1W 2-2W 5-5W 10-10W	M= Metal Box Blank for SST	2-PM1550 Fiber 0-10/125 PMDC Fiber T-12/130 PMDC Fiber R-25/250 PMDC Fiber	B= Bare Fiber L= Loose Tube 2= 2mm Cable 3= 3mm Cable	05-0.5m 10-1.0m 15-1.5m 20-2.0m	N= Without Connector FC/APC=FC/APC Connector LC/PC=LC/PC Connector SC/UPC=SC/UPC Connector	