

1900~1970nm Polarization Maintaining Inline 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
Working Wavelength (λ)	nm	1900 \pm 10, 1930 \pm 20, 1950 \pm 20, 1970 \pm 20	
Isolation (λ , 23°C)	dB	\geq 16	\geq 30
Insertion Loss (λ , 23°C)	dB	\leq 1.3	\leq 1.6
Optical Return Loss (Input/Output)	dB	50/45	50/45
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 or PM1950 Fiber (V) 10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)	
Fiber Tensile Load	N	5	
Maximum Optical Power (CW)	mW	300	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package	Stainless Steel Tube (SST)	mm	(Φ)5.5x35
Dimension	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. 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	-	(C)	C	C	NN	-CC/CCC
<i>Center Wavelength</i>	<i>Stage</i>		<i>Type</i>	<i>Package</i>		<i>Fiber Type</i>	<i>Fiber Sleeve</i>		<i>Fiber Length</i>	<i>Connector Type</i>
1900-1900nm	S- Single Stage		S- S Type	M-Metal Box		2-PM1550Fiber	B- Bare fiber		05-0.5m	N-Without Connector
1930-1930nm	D- Dual Stage		F- F Type	Blank for SST		V-PM1950 Fiber	L- Loose Tube		10-1.0m	FC/APC=FC/APC Connector
1950-1950nm						O-10/130 PMDC Fiber	2- 2mm Cable		15-1.5m	LC/PC=LC/PC Connector
1970-1970nm						R-25/250 PMDC Fiber	3- 3mm Cable		20-2.0m	SC/UPC=SC/UPC Connector