

2090nm High Power PM 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		
Center Wavelength (λc)			nm	2090			
Isolation (λc+/-10nm, 23°C)			dB	≥16	≥30		
Insertion Loss (λc, 23°C)			dB	≤1.4	≤1.9		
Insertion Loss (λc+/-10nm, 23°C)			dB	≤2.0	≤2.5		
Optical Return Loss (Input/Output)			dB	50/45	50/45		
Extinction Ratio			dB	≥18			
Marking Ma	d a	S Type	-	Can only work in Slow Axis			
Working Mo	ae -	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	1, 2			
Operating Temperature			°C	0~50			
Storage Temperature			°C	-20~75			
Package	Stainles	s Steel Tube (SST)	mm	(Φ)5.5x35			
Dimension	Ме	etal 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. 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	С	-HP NN	- (C)	С	С	NN	-CC/CCC
Center Wavelength	Stage	Туре	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
2090- 2090nm	S= Single Stage	S= S Type	1-1W	M=Metal Box	2=PM1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	D= Dual Stage	F= F Type	<mark>2</mark> =2W	<i>Blank</i> for SST	V=PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
					0= 10/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
					R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector





