

1650nm 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 (λ_c)	nm	1650	
Isolation ($\lambda_c \pm 5\text{nm}$, 23°C)	dB	≥ 20	≥ 40
Insertion Loss (λ_c , 23°C)	dB	≤ 0.8	≤ 1.1
Insertion Loss (λ_c , 0-50°C)	dB	≤ 1.0	≤ 1.4
Optical Return Loss (Input/Output)	dB	50/50	50/50
Extinction Ratio	dB	≥ 20	
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)	mW	300	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package	Stainless Steel Tube (SST)	mm	$\phi 5.5 \times L 35$
Dimension	Metal Box-M	mm	$L 120 \times W 12 \times H 10$

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>
1650~1650nm		S= Single Stage D= Dual Stage	S= S Type F= F Type	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