

1900~1970nm Polarization Insensitive 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
PDL (23°C)	dB	\leq 0.2	
PMD	ps	\leq 0.25	\leq 0.30
Fiber Type	-	SMF-28 Fiber or SM1950 Fiber (V) 10/130um DC Fiber (O) or 25/250um DC 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.
 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)

FISO-NNNN	- C	-(C)	(C)	C	NN	- CC/CCC
Center Wavelength	Stage	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1900-1900nm	S- Single Stage	M-Metal Box	V- SM1950 Fiber	B- Bare fiber	05-0.5m	N-Without Connector
1930-1930nm	D- Dual Stage	Blank for SST	O-10/125 DC Fiber	L- Loose Tube	10-1.0m	FC/APC=FC/APC Connector
1950-1950nm			R-25/250 DC Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector
1970-1970nm			Blank for SMF-28 Fiber	3- 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector