

1900~1970nm High Power Optical Isolator

FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Laser Systems
- Research Labs



SPECIFICATIONS

Parameter	Unit	Single Stage	Dual Stage	H Stage
Working Wavelength (λ)	nm	1900 \pm 10, 1930 \pm 20, 1950 \pm 20, 1970 \pm 20		
Isolation (λ , 23°C)	dB	≥ 16	≥ 30	≥ 25
Insertion Loss (λ , 23°C)	dB	≤ 1.3	≤ 1.6	≤ 1.6
Optical Return Loss (Input/Output)	dB	50/45	50/45	50/45
PDL (23°C)	dB	≤ 0.2		
PMD	ps	≤ 0.25	≤ 0.30	≤ 0.3
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)	W	1, 2		3, 5, 10, 15, 20, 30, 40, 50
Operating Temperature	°C	0~50		
Storage Temperature	°C	-20~75		
Package	Stainless Steel Tube (SST)	mm	$\Phi 5.5 \times L35$	
Dimension	Metal Box-M	mm	$L120 \times W12 \times H10$	
				See Drawing

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

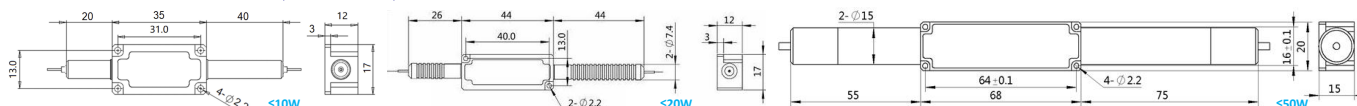
2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.

3. 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.

5. Package size may be different for different power and fiber type.

PACKAGE DIMENSION (H STAGE)



ORDERING INFORMATION (PN)

FISO-NNNN	- C	-HP NN	- (C)	(C)	C	NN	- CC/CCC
Center Wavelength	Stage	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
1900~1900nm	S= Single Stage	1= 1W	M= Metal Box	V= SM1950 Fiber	B= Bare fiber	05=0.5m	N=Without Connector
1930~1930nm	D= Dual Stage	5= 5W	Blank for SST	O=10/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1950~1950nm	H=H Stage	10=10W	or >2W Power	R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
1970~1970nm		20= 20W		Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

