

1900~1970nm Optical Isolator for Pulse Power

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
- Dispersion Compensation
- Light Routing



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	≤ 0.30
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		
Max. Average Optical Power	W	0.3, 0.5, 1, 2		3, 5, 10, 15, 20, 30, 40, 50
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20		
Operating Temperature	°C	0~50		
Storage Temperature	°C	-20~75		
Package	Stainless Steel Tube (SST)	mm	$\Phi 5.5 \times L35$	See Drawing
Dimension	Metal Box-M	mm	$L120 \times W12 \times H10$	

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

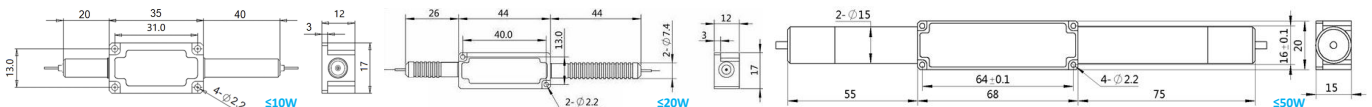
2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.

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	-H	NN	PNN	-(C)	(C)	C	NN	- CC/CCC
Center Wavelength	Stage	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
1900-1900nm	S- Single Stage	03-300mW	01-100W	M-Metal Box	V- SM1950 Fiber	B- Bare fiber	05-0.5m	N-Without Connector	
1930-1930nm	D- Dual Stage	1-1W	1-1kW	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	5-5kW	or >2W Power	R-25/250 DC Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector	
1970-1970nm		20-20W	10-10kW		Blank for SMF-28 Fiber	3- 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector	