2090nm 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	2090±10		
Isolation (λ, 23°C)		dB	≥16	≥25	≥20
Insertion Loss (λ, 23°C)		dB	≤1.6	≤2.2	≤2.2
Optical Return Loss (Input/Output)		dB	50/45	50/45	50/45
PDL (23°C)		dB	≤0.2		
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, 4, 5
Operating Temperature		°C	0~50		
Storage Temperature		°C	-20~75		
Package Dimension	Stainless Steel Tube (SST)	mm	Φ5.5xL35		See Drawing
	Metal Box	mm	L120xW12xH10		

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

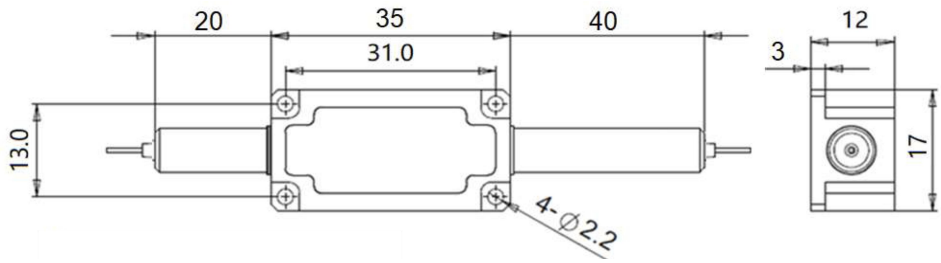
2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.

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 N - (C) (C) C NN - CC/CCC

Center Wavelength	Stage	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
2090= 2090nm	S= Single Stage	1= 1W	M=Metal Box	V= SM1950 Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	D= Dual Stage	2= 2W	Blank for SST	O=10/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	H= H Stage	3=3W	or >2W Power	R=25/250 DC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
		5= 5W		Blank for SMF-28 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector