

## 2090nm PM Inline Optical Isolator for Pulse Power

### 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 ( $\lambda$ )	nm	2090 $\pm$ 10		
Isolation ( $\lambda$ , 23°C)	dB	$\geq$ 16	$\geq$ 25	$\geq$ 20
Insertion Loss ( $\lambda$ , 23°C)	dB	$\leq$ 1.6	$\leq$ 2.2	$\leq$ 2.2
Optical Return Loss (Input/Output)	dB	50/45	50/45	50/45
Extinction Ratio	dB	$\geq$ 18		
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 or PM1950 Fiber (V) 10/130um PMDC Fiber (O) or 25/250um PMDC Fiber (R)		
Fiber Tensile Load	N	5		
Max. Average Optical Power	W	0.3, 0.5, 1, 2		3, 4, 5
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	$\Phi$ 5.5xL35	
Dimension	Metal Box-M	mm	L120x <sup>W</sup> 12x <sup>H</sup> 10	

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

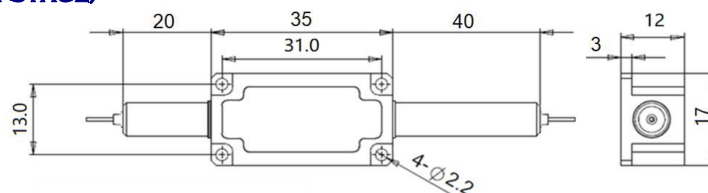
2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

3. 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)

Center Wavelength	Stage	Type	Average Power	Peak Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
2090=2090nm	S= Single Stage	S= S Type	03=300mW	01= 100W	M= Metal Box	2=PM1550Fiber	B= Bare fiber	05=0.5m	N=Without Connector
	D= Dual Stage	F= F Type	1= 1W	1=1kW	Blank for SST	V=PM1950 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
	H= H Stage		2=2W	5=5kW	or >2W Power	O=10/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
			5= 5W	10=10kW		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector