

## 900~950nm High Power Dual Stage PM Isolator for Pulse Power

### FEATURES

- High Isolation
- Epoxy-Free Optical Path
- High Reliability and Stability

### APPLICATIONS

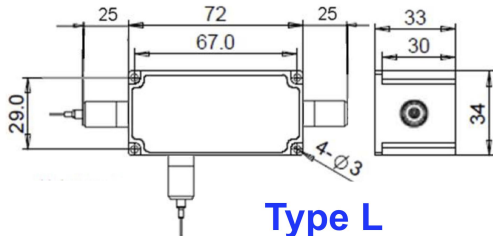
- Fiber Optic Amplifiers
- Fiber Optic Instruments
- Transmitters and Fiber Lasers

### SPECIFICATIONS

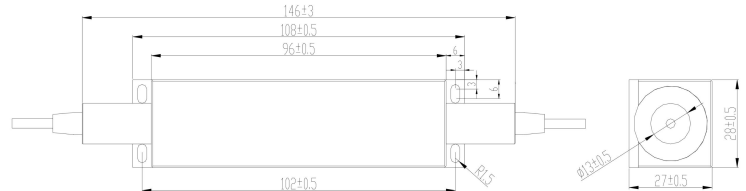
Parameter	Unit	High Power Type
Center Wavelength ( $\lambda_c$ )	nm	915, 930, 940, 950
Operating Wavelength Range	nm	+/-10
Peak Isolation (Typ.)	dB	50
Min. Isolation (23°C)	dB	40
Typical Insertion Loss ( $\lambda_c$ , 23°C)	dB	1.0
Max. Insertion Loss ( $\lambda_c$ , 23°C)	dB	2.0
Optical Return Loss (Input/Output)	dB	45/45
Extinction Ratio @ 23°C (Min.)	dB	18
Working Mode	S Type	-
	F Type	-
Configuration	Can only work in Slow Axis	
	Can work both in Slow Axis and Fast Axis	
Fiber Type	Input&Output	Standard: 2-Port; Y Type: 3-Port, Backward Power Guide Out
		PM780-HP Fiber (7), PM850 Fiber, PM980 Fiber (H) or PM1060L Fiber (E)
	3 <sup>rd</sup> Port (Y Type)	-
Fiber Tensile Load	N	5
Max. Average Optical Power	W	0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100
Max. Peak Power for Pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20
Max. Backward Average Power	W	0.3, 0.5, 1, 2, 3, 5, 10
Operating Temperature	°C	0~50
Storage Temperature	°C	-20~75

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.7dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  - Suggest to use Y type for >20W Optical Power or continuous backward power of  $\geq 500$ mW.
  - 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.
  - Package dimensions may be slightly different for different optical power.

### PACKAGE DIMENSION



Type L



Type D

### ORDERING INFORMATION (PN)

Center Wavelength	Type	Type	3 <sup>rd</sup> Port Fiber	Average Power	Peak Power	Backward Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
915-915nm	L-Type L	S- S Type	Y- Same Fiber	05-500mW	01- 100W	05-500mW	2-PM850Fiber	B- Bare Fiber	05-0.5m	N=Without Connector
930-930nm	D-Type D	F- F Type	A-105/125um Fiber	1-1W	1-1kW	1-1W	H-PM980 Fiber	L- Loose Tube	10-1.0m	FC/APC=FC/APC Connector
940-940nm			Blank for Standard	10-10W	10-10kW	10-10W	E-PM1060L Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector
950-950nm				30-30W	20-20kW	Blank for 300mW	R-25/250 PMDC Fiber	3- 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector

