

633nm Polarization Maintaining Isolator



Description

The LD-PD' S PL-PMI Series is Polarization Maintaining Isolator. This is one High power fiber optic components we special design for RGB fiber laser. And now wavelength at 405/532/633/780nm is available, This Unit Can handle maximum average power at 1w. We can help Customize according to Customer' s Requirements.

Features

- High Power Stability
- Low Insertion Loss
- High Isolation
- High Extinction Ratio

Application

- Femto-second Fiber laser application
- Dense wavelength division multiplexing (DWDM)
- EDFAs for small package designs
- High power Fiber laser

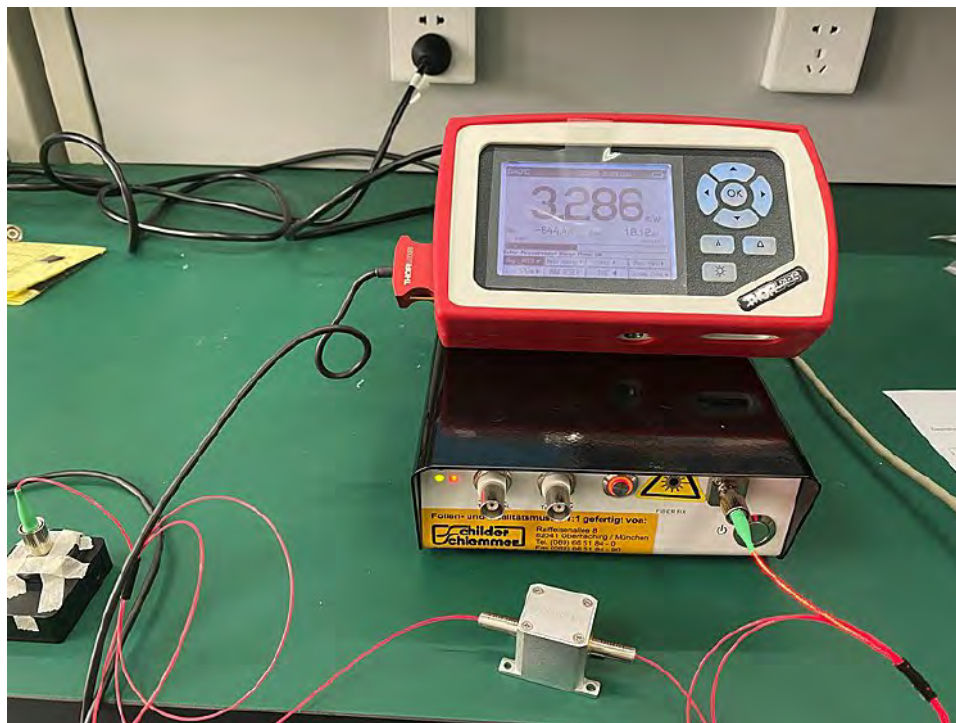
E/O Characteristics

Optical Characteristics(Tsub=25°C, CW bias unless stated otherwise)

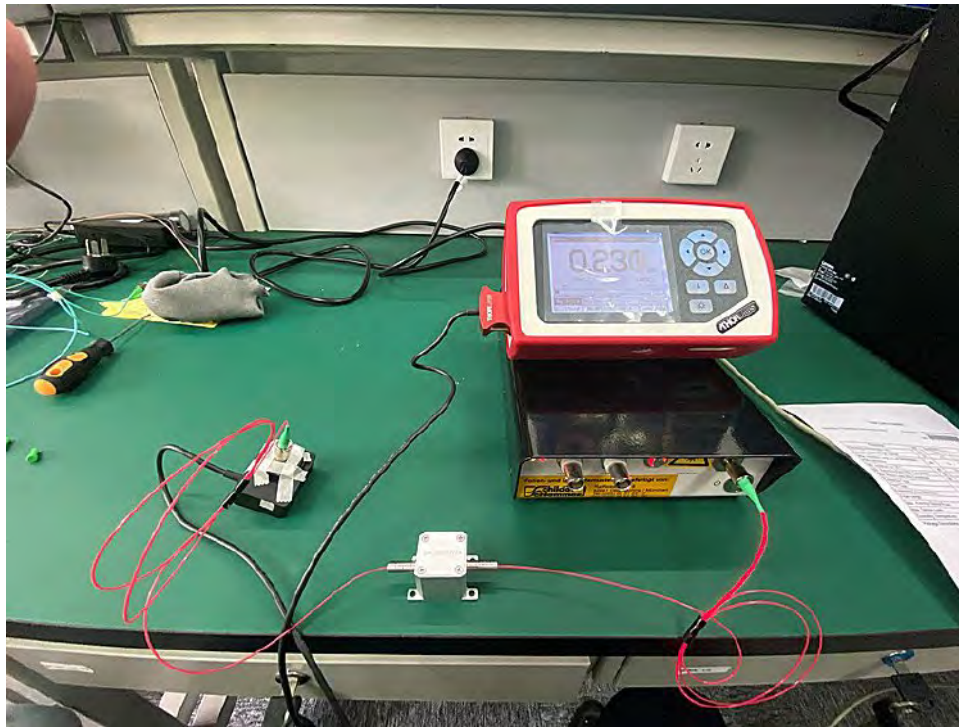
Parameter	Unit	Single Stage	Dual Stage
Center Wavelength (λ_c)	nm	633nm	
Typ. Peak Isolation	dB	38	55
Min. Isolation, λ_c , 23 °C	dB	35	45
Typ. Insertion Loss, λ_c , 23 °C	dB	1.5	2.4
Max. Insertion Loss, λ_c , all temperature	dB	2.0	4.5
Min. Extinction Ratio	dB	20	
Min. Return Loss (Input/Output)	dB	55/50	
Max. Average Optical Power	mW	500	
Fiber Type		Nufern PM630HP	
Operating Temperature	°C	-5 to +50	
Storage Temperature	°C	-40 to +85	

Note: 1.*IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added.
2.*Connector key is aligned to slow axis.

Testing Result with LD-PD 633nm Laser diode(633nm 4.7mw Narrow Linewidth Laser diode):

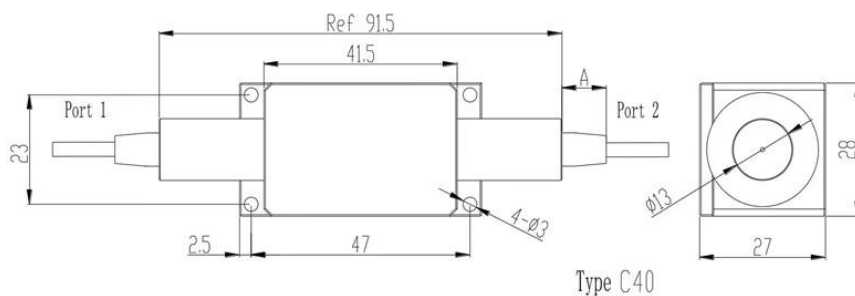


Forward



Backward

Package Size



For 900um Loose Tube,
 $A=8\pm 2\text{mm}$;
For 3mm Cable, $A=10\pm 2\text{mm}$;

PM630 Fiber Nominal Characteristics and Tolerances

Parameters	Specification
Operating Wavelength	950 – 1100 nm
Cross Talk	- 40dB
Mode Field Diameter(Gaussian)	$6.6 \pm 0.5 \mu\text{m}$ @ 1550 nm
Cutoff	$900 \pm 40 \text{ nm}$
Beat Length	1.5-2.7 mm

Ordering Info

PL- PMI-☆-A8▽-W□□□□-□□-□-XX(PMI: Polarization Maintaining Isolator)

☆ : Handling Power

A: 300mW

B: 1W

C: 5W

D: Customize

▽: Working Mode

P: Pulse

C: Continuous wave

□ □ □ □ : Wavelength

450: 450nm

532: 532nm

632: 632nm

1064: 1064nm

□ □ : Fiber Jacket

B: Bare fiber

L: 900um Loose tube

C: Customize

□ : Working axis

F: Fast axis alignment

S: Slow axis alignment

B: Both Axis Work

XX: Fiber and Connector Type

SA= FUD-3460 10/125 fiber + FC/APC

SP= FUD-3460 10/125 fiber + FC/PC

PP= PM630 fiber + FC/PC

PA= PM630 fiber + FC/APC

Labeling

Laser Components Safety

Due to the small size of the Fiber optic module, the box packaging is labeled with the laser radiation hazard symbol and safety warning labels shown below:



Shipping box label

Headquarters: 288, Woodlands Loop, #04-00, Singapore 738100

User Safety

Safety and Operating Considerations

The laser light emitted from this laser diode is invisible and may be harmful to the human eye. Avoid looking directly into the fiber when the device is in operation.

CAUTION: THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT INCREASES EYE HAZARD. Operating the laser Components outside of its maximum ratings may cause device failure or a safety hazard. Power supplies used with this component cannot exceed maximum peak optical power.