



Optizone High Power Polarization Maintaining Isolator (Ultra-Fast Fiber Lasers)

Features

Low Insertion Loss
High Power Handling
High Isolation

Applications

Ultra-Fast Fiber Lasers
Optical Fiber Amplifier
Instruments
Fiber Laser
Sensor Systems



Specifications

Parameters	Unit	Values	
Stage		Single Stage	Dual Stage
Isolator Type		A43	A182
Center Wavelength	nm	1064 or Specify	
Typ. Peak Isolation	dB	35	50
Min. Isolation at 23℃	dB	28	45
Typ. Insertion Loss at 23℃	dB	1.6	2.5
Max. Insertion Loss at 23℃	dB	1.8	3.0
Max. Insertion Loss at 1064nm @ 1.0W , 23℃	dB	2.0	3.1
Max. Insertion Loss at 1064nm @ 1.5W , 23℃	dB	2.3	3.3
Max. Insertion Loss at 1064nm @ 2.0W , 23℃	dB	2.5	3.6
Min. Return Loss (Port 1 ,Port 2)	dB	50/50	
Min. ER at 23℃ (F-Type)	dB	22	
Min. ER at 23℃ (B-Type)	dB	20	
Max. Optical Average Power	W	2.0 or specify	2.0 or specify
Max. Peak Power for ns Pulse	kW	10 @ 1ns	
Max. Tensile Load	N	5	
Operating Temperature	℃	+10 to +50	
Storage Temperature	℃	0 to +75	

*For pulse applications, pls discuss with Optizone Technology.

*The PM fiber and the connector key are aligned to the slow axis.

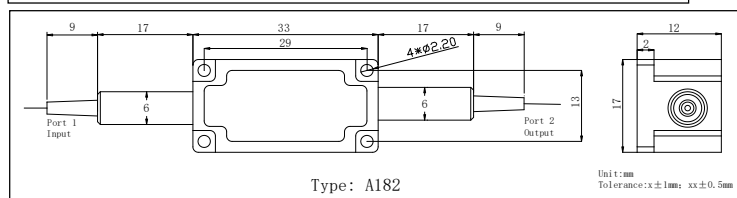
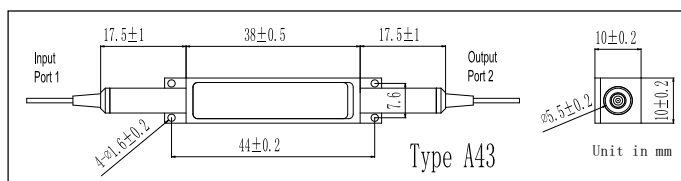
*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower, and ER will be 2dB lower & handling Power will be only 1W(CW).

*The maximum power is the sum of the powers in the forward and backward directions.

*The material must be RoHS compliant.

Package Dimensions



Ordering Information

HPMI-UF-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦-⑧⑧

①①: Wavelength

06 - 1064nm

S - Specify

④④: Axis Alignment

F - Fast Axis Blocked

B - Both Axis Working

⑥⑥: Fiber Jacket

B - Bare Fiber

C - 900um Loose Tube(red)

S - Specify

②②: Package Type

A43 - Type A43

A182 - Type A182

⑤⑤: Connector Type

1A - FC/UPC

2A - FC/APC(Step)

3A - SC/UPC

4A - SC/APC(Step)

N - None

S - Specify

⑦⑦: Fiber Length

0.8 - 0.8m

S - Specify

③③: Handling Power

01 - 1W

02 - 2W

S - Specify

⑧⑧: Fiber Type

1 - PM 980 Fiber

45 - Nufern PLMA -GDF-10/125-M NA0.075 Fiber

65 - Nufern PM1060L 10/125 GSF NA0.085 Fiber

79 - YSL PM 10/125 NA0.085 Fiber

S - Specify