

## High Power Polarization Maintaining Fiber to Free Space Isolator (HPMFSI Series)

### Description

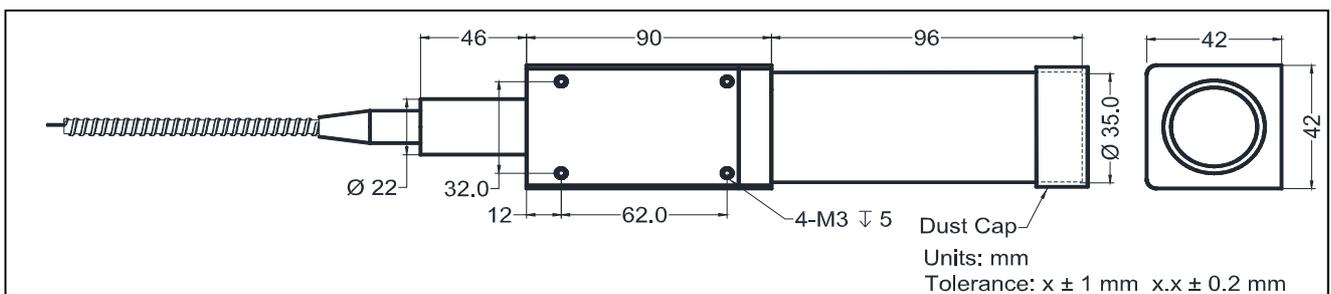
Rev 11F

The 1064 nm Fiber to Free Space High Power Isolator is characterized with low insertion loss, high isolation, high power handling, high return loss, and excellent environmental stability and reliability. It is ideal for fiber laser and instrumentation applications.

### Specifications

Parameter	Unit	Value
Center Wavelength ( $\lambda_c$ )	nm	1064
Typ. Peak Isolation	dB	35
Min. Isolation, 23 °C, $\lambda_c$	dB	28
Max. Insertion Loss, 23 °C	dB	0.5
Min. Extinction Ratio	dB	20
M <sup>2</sup> Degradation	%	< 10
Beam Roundness	%	> 90
Min. Return Loss	dB	50
Max. Average Optical Power	W	30
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Fiber Type (Input port)	-	PM 980 Panda Fiber
Fiber Type (Output port)	-	Free Space
Output beam size ( $1/e^2$ )	mm	7 ± 0.5
Operating Temperature	°C	+ 10 to + 50
Storage Temperature	°C	0 to + 60

### Package Dimensions



### Ordering Information

HPMFSI-①①-②②-③-④-⑤-⑥-⑦-⑧

①①: Wavelength

06 - 1064 nm

SS - Specify

②②: Handling Power

03 - 3 W 20 - 20 W

10 - 10 W 30 - 30 W

SS - Specify

④: Fiber Jacket

B - 250  $\mu$ m Bare Fiber

6 - 6 mm Armoured Cable  
with Yellow PVC Tube

⑤: Fiber Length

2 - 2.0 m

S - Specify

⑥: Working Axis

F - Fast Axis Blocked

B - Both Axes Working

⑦: Fiber Type

1 - PM 980 Panda Fiber

2 - Nufern FUD-3460 PM-10/125 NA0.08

3 - Nufern PLMA-GDF-20/130 NA 0.08

⑧: Power Type

P - Pulsed

C - Continuous Wave