



1064 nm Fiber to Free Space High Power Isolator (FSHI Series)

Rev 11C

Description

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. This optical isolator is ideal for fiber amplifier and fiber laser output isolation.

Key Features

- High Power Handling
- Low Insertion Loss

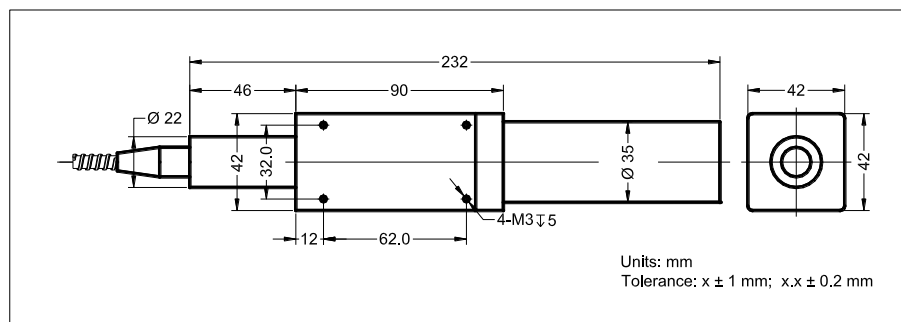
Applications

- Fiber Lasers
- Fiber Optic Instruments

Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064 nm or specify
Typ. Peak Isolation	dB	35
Min. Isolation @ λ_c All Polarization States, 23 °C	dB	28
Max. Insertion Loss @ λ_c , 23 °C	dB	0.5
Max. Polarization Dependent Loss	dB	0.1
M ² Degradation	%	< 10
Beam Roundness	%	> 90
Min. Return Loss	dB	50
Max. Average Optical Power	W	20
Max. Peak Power (Pulse Width, 10 ns)	kW	10
Max. Tensile Load	N	5
Fiber Type (Input Port)	-	Specified by ordering info
Fiber Type (Output Port)	-	Free Space
Nominal Output Beam Diameter (1/e ²)	mm	7 ± 0.5
Operating Temperature	°C	+ 10 to + 50
Storage Temperature	°C	0 to + 60

Package Dimensions



Ordering Information

FSHI-①①-②②-③③-④④-⑤⑤-⑥⑥

①①: Wavelength

06 - 1064 nm

SS - Specify

②②: Handling Power

20 - 20 W

SS - Specify

③③: Fiber Jacket

6 - 6 mm Armoured Cable

with Yellow PVC Tube

④④: Fiber Length

2 - 2.0 m

S - Specify

⑤: Fiber Type

1 - Nufern LMA-GDF-20/130-M, 0.08/0.46 NA

2 - Nufern LMA-GSF-10/125-M, 0.075 NA

S - Specify

⑥: Power Type

P - Pulsed

C - Continuous Wave