



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

Rev 11C

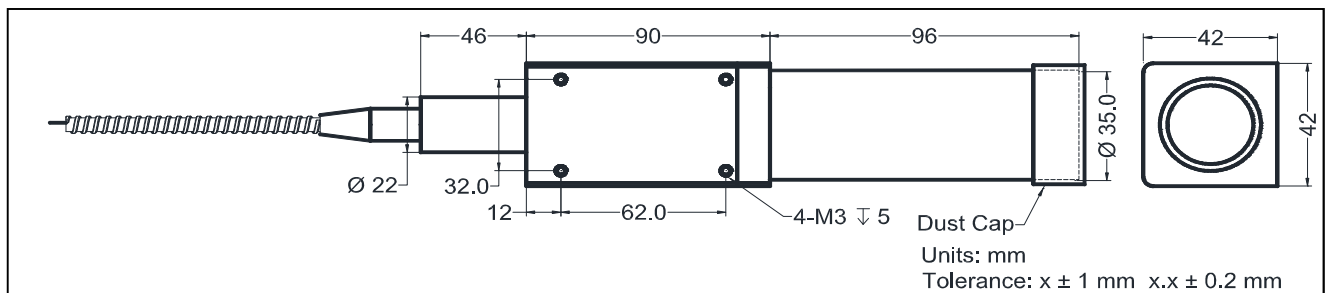
Description

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. It is ideal for fiber amplifier, fiber laser output isolation.

Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064 or specified
Typ. Peak Isolation	dB	35
Min. Isolation at 23 °C, λ_c all polarization states	dB	28
Max. Insertion Loss at 23 °C, λ_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 for ns pulse	kW	10
Max. Tensile Load	N	5
Fiber Type (Input port)	-	Nufern LMA-GDF-20/130-M, NA: 0.08/0.46
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	②②: Handling Power	③③: Fiber Jacket	④④: Fiber Length
06 - 1064 nm	10 - 10 W 30 - 30 W	B - Bare Fiber	1 - 1.0 m
SS - Specify	20 - 20 W SS - Specify	6 - 6 mm Armoured Cable with Yellow PVC Tube	2 - 2.0 m
			S - Specify
⑤⑤: Fiber Type	⑥⑥: Power Type		
1 - Nufern LMA-GDF-20/130-M, NA: 0.08/0.46	P - Pulse Application		
2 - Nufern LMA-GSF-10/125-M, NA: 0.075	C - Continuous Wave		