



Fiber to Free Space High Power Isolator

Description

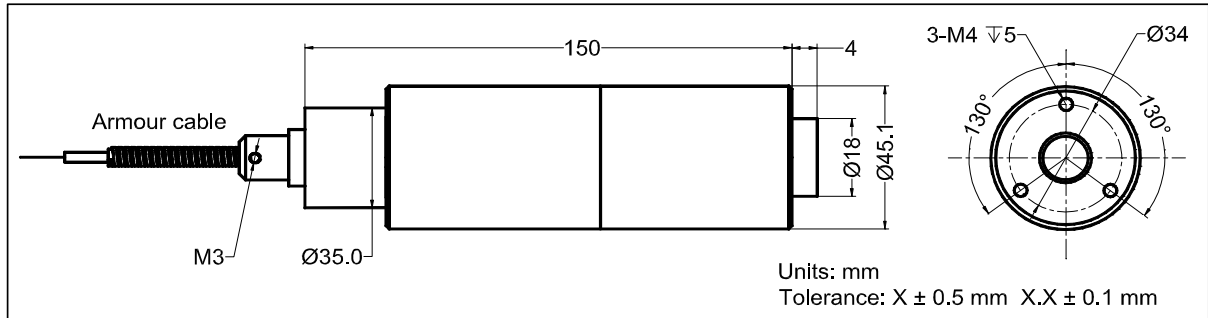
Rev 11C

The 1064nm 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 and fiber laser applications.

Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064 \pm 10 nm
Min. Isolation at 23 °C; λ_c all polarization states	dB	33
Min. Isolation at full temperature; λ_c all polarization states	dB	23
Max. Insertion Loss at 23 °C	dB	0.4
Max. Polarization Dependent Loss	dB	0.10
Min. Return Loss	dB	53
Max. Average Optical Input Power	W	110
Max. Average Optical Output Power	W	100
Max. Peak Power for ns pulse	kW	30
Reverse Power Handling	W	50 W for 3 min. max.
Fiber Type (input port)	-	specified by ordering info.
Nominal Output Beam Diameter ($1/e^2$)	mm	0.52 \pm 0.02
M ² Degradation	%	< 10
Beam Roundness	%	> 90
650-670 nm Transmission	%	> 10
Beam Centroid Position	mm	\pm 0.2
Beam Divergence Angle (Full Angle)	mrad	< 5.0
Max. Tensile Load	N	5
Operating Temperature	°C	+ 10 to + 50
Storage Temperature	°C	0 to + 60

Package Dimensions



Ordering Information

HPFSI-①①-②②②-③-④-⑤⑤-⑥

①①: Wavelength

06 - 1064 nm

SS - Specify

②②②: Handling Power

030 - 30 W 050 - 50 W

100 - 100 W SSS - Specify

③: Fiber Length

3 - 3.0 m

S - Specify

④: Fiber Type

1 - Nufern LMA-GDF-30/250-M

2 - Liekki Passive-25/250SC/DC

3 - Nufern LMA-GDF-20/130

S - Specify

⑤⑤: Fiber Jacket

06 - 6 mm Armoured Cable

10 - 10 mm Armoured Cable

SS - Specify

⑥: Power Type

P - Pulsed

C - Continuous wave