

# SeasonBeam™ - Wide Temperature Range Fiber Laser Isolator (GK-HPMDI Series)

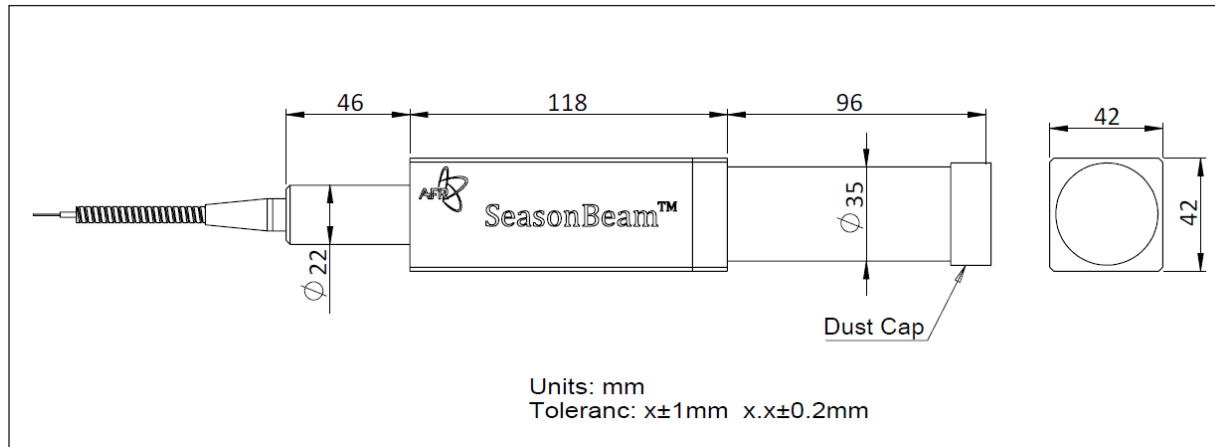
## ● Description

GKER's SeasonBeam™ Isolator proves solution to fiber laser that is required to operate in wide temperature range. With patented design, SeasonBeam™ Isolator maintains high isolation in temperature between 0 °C and 55 °C to assure laser operates well at all environment temperatures. The SeasonBeam™ can be used alone or in combination with GKER's SteadiBeam™ technology for higher power isolators to eliminate thermal lensing effect.

## ● Specifications

Parameter	Unit	Value
Center Wavelength ( $\lambda_c$ )	nm	1064 ±15
Typ. Peak Isolation	dB	40
Min. Isolation at 23 °C, $\lambda_c$ all polarization states	dB	35
Min. Isolation at all temperature $\lambda_c$ all polarization states	dB	30
Max. Insertion Loss at 23 °C, $\lambda_c$	dB	0.4
Max. Insertion Loss at all temperature	dB	0.5
Min. Return Loss	dB	50
Nominal Output Beam Diameter ( $1/e^2$ )	mm	7.0 ±0.5
Beam Circularity	%	> 90
M <sup>2</sup> Degradation	%	< 10
Max. Average Optical Power	W	20 - 100
Max. Peak Power for ns pulse	kW	35
Fiber Type (Input Port)	-	specified by ordering info
Operating Temperature	°C	0 to + 55
Storage Temperature	°C	- 20 to + 70

## ● Package Dimensions



## ● Ordering Information

GK-SeansonBeam-①-②-③-④-⑤

### ①: Wavelength

06 - 1064 nm  
SS - Specify

### ②: Handling Power

020 - 20 W 030 - 30 W  
050 - 50 W 070 - 70 W  
100 - 100 W SSS - Specify

### ③: Jacket Type

6 - 6 mm Armoured Cable  
S - Specify

### ④: Fiber Length

3 - 3.0 m  
S - Specify

### ⑤: Fiber Type

1 - Nufern LMA-GDF-20/130-M (NA 0.08)  
2 - Nufern LMA-GDF-30/250-M (NA 0.06)  
S - Specify