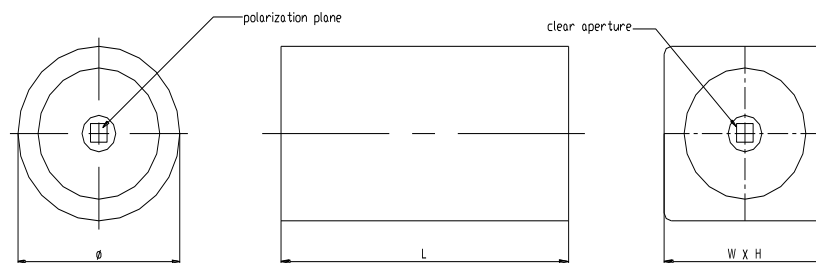


High Power Free Space Isolator 1080nm

The 1080 nm High Power Free Space Isolator is a magneto-optic faraday optical isolator allows light to be transmitted only in the forward direction while prevent back reflection. The free space isolators are commonly used to protect fiber lasers against back-reflected light. OF-LINK offers free space isolators with average handling power up to 50W (peak power could be up to 5MW upon request), clear aperture up to 5mm, and different operating wavelengths available.



Features

- High Isolation
- Large Clear Aperture
- High Transmission
- High Power Handling

Applications

- Fiber Laser
- Lab & Research

Performance Specification

Parameter	Value		Unit
Stage	Single Stage	Dual Stage	nm
Center Wavelength (λ_c)	1080 or customized		nm
Bandwidth	± 5	± 15	nm
Typ. Isolation at 23°C, λ_c	36	55	dB
Min. Isolation at 23°C, λ_c	25	40	dB
Max. Insertion Loss at 23°C, λ_c	0.35	0.6	dB
Clear Aperture (CA)	3.0, 3.6, 4.0, 5.0 (or Customized)		mm
Tilt Angle of Input Light	0 ± 2		deg
Min. Return Loss	55		dB
Polarization	Linear		
Max. Optical Power (Continuous Wave)	1, 3, 5, 10, 15, 20, 30, 50		W
Max. Tensile Load	100 (higher Power available upon request)		kW
Operating Temperature	0 to +50		°C
Storage Temperature	-20 to +75		°C
Package Dimension for 3mm CA	$\Phi 35 \times L70$, or $W35 \times H35 \times L70$	$\Phi 35 \times L158$, or $W35 \times H35 \times L158$	mm
Package Dimension for ≥ 3.6 mm CA	$\Phi 45 \times L80$, or $W45 \times H45 \times L80$	$\Phi 45 \times L168$, or $W45 \times H45 \times L168$	mm

Note

* For other clear aperture or handling power, pls discuss with OF-LINK.

Ordering Information

HPFSI-AAAA-B-CC-D-EE

AAAA	B	CC	D	EE
Wavelength	Stage	Clear Aperture	Package Type	Power
1030 - 1030nm	S - Single Stage	20 - 2.0mm	C - Circle Type	01 - 1W
1040 - 1040nm	D - Dual Stage	30 - 3.0mm	Q - Quadrate Type	03 - 3W
1050 - 1050nm		36 - 3.6mm		05 - 5W
1053 - 1053nm		40 - 4.0mm		10 - 10W
1064 - 1064nm		50 - 5.0mm		15 - 15W
1080 - 1080nm		SS - Specify		20 - 20W
SSSS - Specify				30 - 30W
				50 - 50W
				SS - Specify