High Power Polarization Dependent Free Space Isolator 1635nm (Optical power 10W Peak isolation 55dB)

Product Description

High Power Polarization Dependent Free Space Isolators (HPDFSI Series)

Product features

High power tolerance; Accurate polarization rotation; Low insertion loss;

Wide temperature stability; Compact free space design

Part Number

MP-ISO-S-1635-B-S-3-S

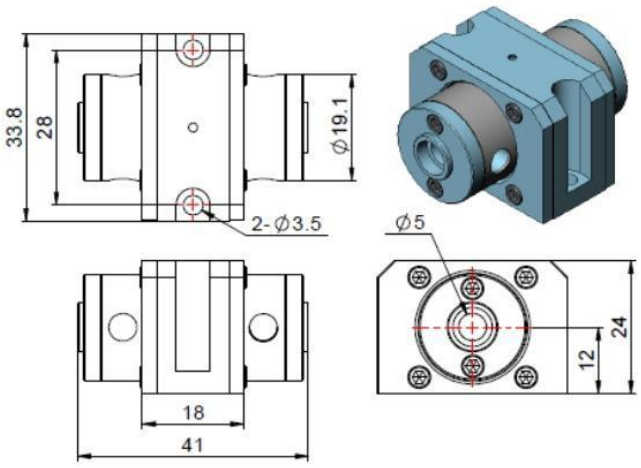
Application area

Blue light laser system | Quantum optics experiment | Atomic cooling (MOT) | Precision measurement | Scientific research experiment

Core parameters

Center Wavelength	Min. Isolation	Average Optical Power
1635nm	50dB	10W

Dimension Drawing



General Parameters

parameter	Unit	Value
Central wavelength (λc)	nm	1635
Peak Isolation	dB	55
Min. Isolation, λc , 23℃	dB	50
Typ . Insertion loss, λc , 23℃	dB	0.4
Max. Insertion loss, λc , 23℃	dB	0.5
Polarization rotation angle, λc , 23℃	deg	90 ± 2
Clear Aperture	mm	3 or 5
Max. Average optical power	W	10
Max. Peak power density	J/cm2	1
The output polarization of the isolator is approximately 90° relative to the input polarization.		

Model Description	
MP-ISO-①-②-③-④-⑤	
①: Wavelength	1620-1620 nm, 1635-1635 nm, SS-pointed
②: Clear aperture	3-Φ3.0 mm, 5-Φ5.0 mm, S-pointed
③: Input polarization	V-vertical, H-horizontal, S-pointed
④: Output polarization	V-vertical, H-horizontal, S-pointed
⑤: Power type	P- pulse application, C- continuous wave