

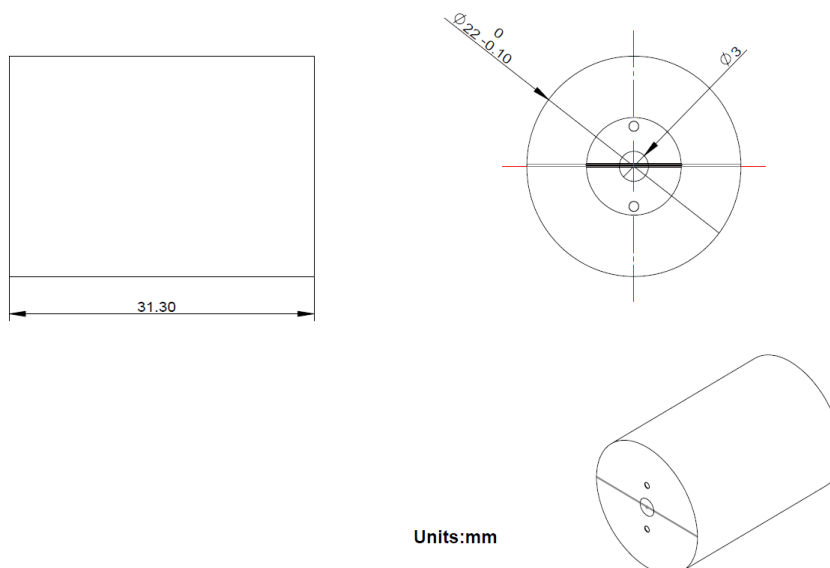
High Power Polarization Depend Free Space Isolator (HPDFSI Series)

Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	780, 795 or 850
Peak Isolation	dB	35
Min. Isolation, λ_c , 23 °C	dB	30
Typ. Insertion Loss, λ_c , 23 °C	dB	0.7
Max. Insertion Loss, λ_c , 23 °C	dB	0.5
Polarization Rotation Angle, λ_c , 23 °C	deg	45 ± 3
Clear Aperture	mm	3
Max. Beam Diameter(100%)	mm	3
Max. Average Optical Power	kW/cm ²	2
Max. Peak Power Density	J/cm ²	1

This isolator has an output polarization of $\sim 45^\circ$ relative to that of the input.

Package Dimensions



Ordering Information

HPDFSI-①①①-②②-③-④

①①①: Wavelength	780 - 780 nm, 795 - 795 nm, 850 - 850 nm, SS - Specify
②: Clear Aperture	3 - $\Phi 3.0$ mm
③: Input Polarization	V - Vertical, H - Horizontal, S - Specify
④: Power Type	P - Pulse application, C - Continuous wave

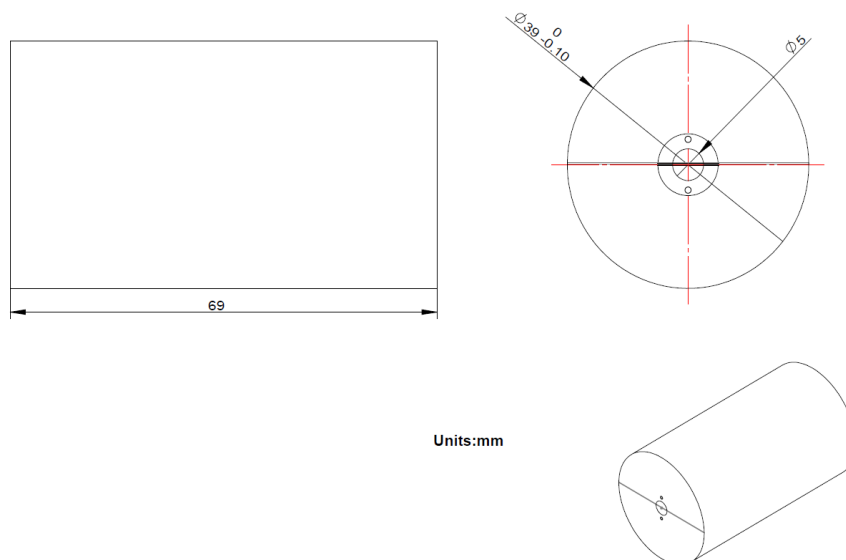
High Power Polarization Depend Free Space Isolator (HPDFSI Series)

Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	780, 795 or 850
Peak Isolation	dB	65
Min. Isolation, λ_c , 23 °C	dB	60
Typ. Insertion Loss, λ_c , 23 °C	dB	0.7
Max. Insertion Loss, λ_c , 23 °C	dB	0.5
Clear Aperture	mm	5
Max. Beam Diameter(100%)	mm	5
Max. Average Optical Power	kW/cm ²	2
Max. Peak Power Density	J/cm ²	1

This isolator has an output polarization of ~45° relative to that of the input.

Package Dimensions



Ordering Information

HPDFSI-①①①-②②-③-④

①①①: Wavelength	780 - 780 nm, 795 - 795 nm, 850 - 850 nm, SS - Specify
②: Clear Aperture	5 - Φ 5.0 mm
③: Input Polarization	V - Vertical, H - Horizontal, S - Specify
④: Power Type	P - Pulse application, C - Continuous wave



Theotech

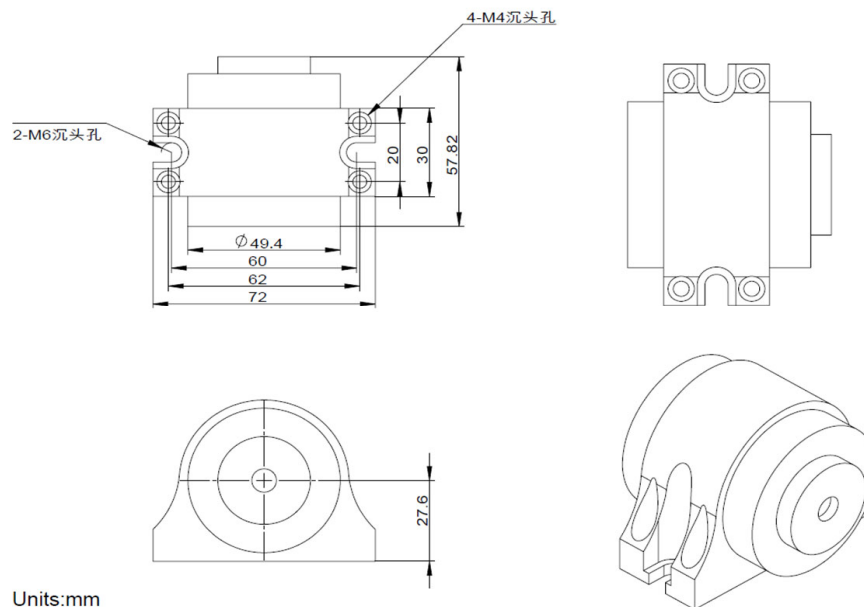
Theotech Co., Ltd.

Faraday Rotator (FR Series)

Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064
Min. Spectral Width	nm	± 10
Faraday rotation angle (single pass), λ_c nm, 23 °C	degree	45
Maximum Rotation angle tolerance, λ_c nm, 23 °C	degree	± 1
Typ. Insertion Loss, λ_c , 23 °C	dB	0.2
Max. Insertion Loss	dB	0.3
Max. Clear Aperture	mm	8
Min. Extinction Ratio	dB	30
Max. Average Optical Power	W	100
Max. Optical Power Density	MW/cm ²	100
Max. Peak Power Density	GW/cm ²	1
Operating Temperature	°C	10 to +50
Storage Temperature	°C	0 to +60

Package Dimensions



Ordering Information

FR-①-②-③

①①: Wavelength	1064 - 1064 nm, SS - Specify
②②: Clear Aperture	8 - 8 mm
③③: Power Type	C - Continuous Wave, P - Pulse Application

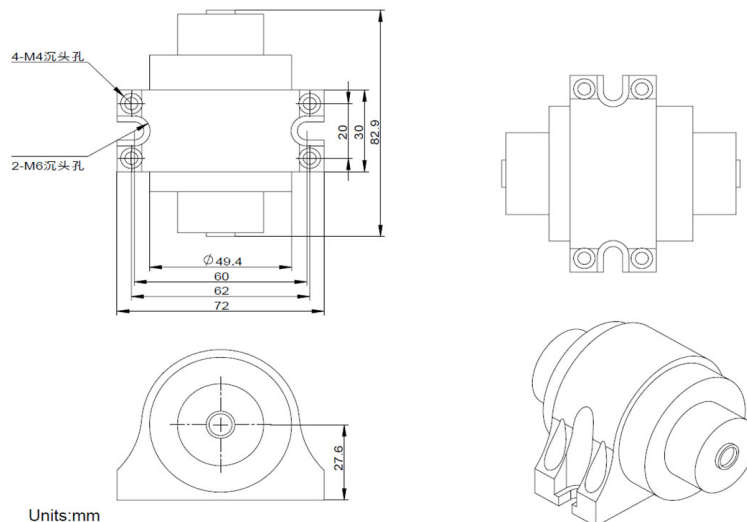
High Power Polarization Depend Free Space Isolator (HPDFSI Series)

Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064
Peak Isolation	dB	35
Min. Isolation, λ_c , 23 °C	dB	30
Min. Extinction Ratio	dB	25
Typ. Insertion Loss, λ_c , 23 °C	dB	0.3
Max. Insertion Loss, λ_c , 23 °C	dB	0.4
Polarization Rotation Angle, λ_c , 23 °C	deg	45 ± 1
Clear Aperture	mm	8
Max. Beam Diameter(100%)	mm	7
Max. Optical Power Density	MW/cm ²	100
Max. Peak Power Density	J/cm ²	10

This isolator has an output polarization of ~45° relative to that of the input.

Package Dimensions



Ordering Information

HPDFSI-①①-②-③-④

①①: Wavelength	06 - 1064 nm, SS - Specify
②: Clear Aperture	8 - $\Phi 8.0$ mm, S - Specify
③: Input Polarization	V - Vertical, H - Horizontal, S - Specify
④: Power Type	P - Pulse application, C - Continuous wave