

Faraday Isolator



DESCRIPTION

Faraday isolator is a kind of magneto-optical device based on Faraday magneto-optical effect. It can rotate the polarization direction of the polarized light into a certain angle, and the rotation direction is only related to the internal magnetic field, and has nothing to do with the light direction. The rotation angle of common Faraday isolator is designed as 45° or 90° . A 45° polarizer is placed between two polarizers in a 45° configuration to form an Faraday optical isolator. Faraday optical isolator is a kind of magneto-optical device with unidirectional light transmission, which is widely used in laser amplification system, film-locked laser and laser measurement equipment.

Our company has independently developed and produced a series of polarizers and isolators, which are made of high-quality terbium gallium garnet (TGG) magneto-optical crystal, polarizing spectropism and high coercive magnetic materials, so as to ensure that the series products have the highest isolation, transmittance, laser damage threshold resistance and temperature application range.

APPLICATIONS

- Seed light amplifying laser
- Lock film laser
- A semiconductor laser
- Optical measuring equipment
- Optical parametric oscillator

FEATURES

- High isolation
- Low insertion loss
- Multiple clear apertures
- Double escape windows at both ends
- Multiple wavelengths available
- Practicality of a certain wavelength bandwidth
- Output polarization controllable

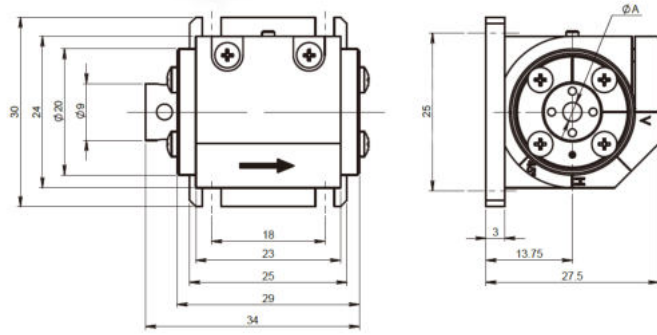


PARAMETERS

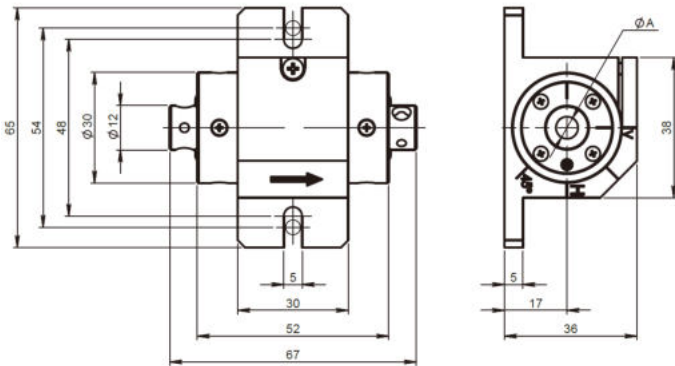
Center Wavelength	Model	Clear Aperture	Polarizer	Extinction Ratio	Transmittance	Damage Threshold @10ns	Package Form
405nm	CL405-2.5-OI001	2.5mm	PBS Cube	>30dB	>85%	3.5J/cm ²	1#
	CL405-5-OI002	5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	2#
532nm	CL532-2.5-OI003	2.5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	1#
	CL532-5-OI004	5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	2#
561nm	CL561-2.5-OI005	2.5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	1#
	CL561-5-OI006	5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	2#
633nm	CL633-2.5-OI007	2.5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	1#
	CL633-5-OI008	5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	2#
650nm	CL650-2.5-OI009	2.5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	1#
	CL650-5-OI010	5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	2#
670nm	CL670-2.5-OI011	2.5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	1#
	CL670-5-OI012	5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	2#
780nm	CL780-2.5-OI013	2.5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	1#
	CL780-5-OI014	5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	2#
795nm	CL795-2.5-OI015	2.5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	1#
	CL795-5-OI016	5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	2#
830nm	CL830-2-OI017	2mm	PBS Cube	>30dB	>90%	3.5J/cm ²	1#
	CL830-5-OI018	5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	2#
850nm	CL850-2-OI019	2mm	PBS Cube	>30dB	>90%	3.5J/cm ²	1#
	CL850-5-OI020	5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	2#
895nm	CL895-5-OI021	5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	2#
980nm	CL980-5-OI022	5mm	PBS Cube	>30dB	>90%	3.5J/cm ²	3#
1030nm	CL1030-2.5-OI023	2.5mm	PBS Cube	>30dB	>90%	5J/cm ²	3#
	CL1030-5-OI024	5mm	PBS Cube	>30dB	>90%	5J/cm ²	3#
	CL1030-8-OI025	8mm	PBS Cube	>30dB	>90%	5J/cm ²	4#
	CL1030-10-OI026	10mm	PBS Cube	>30dB	>90%	5J/cm ²	4#
1064	CL1064-2.5-OI027	2.5mm	PBS Cube	>30dB	>90%	5J/cm ²	3#
	CL1064-5-OI028	5mm	PBS Cube	>30dB	>90%	5J/cm ²	3#
	CL1064-8-OI029	8mm	PBS Cube	>30dB	>90%	5J/cm ²	4#
	CL1064-10-OI030	10mm	PBS Cube	>30dB	>90%	5J/cm ²	4#



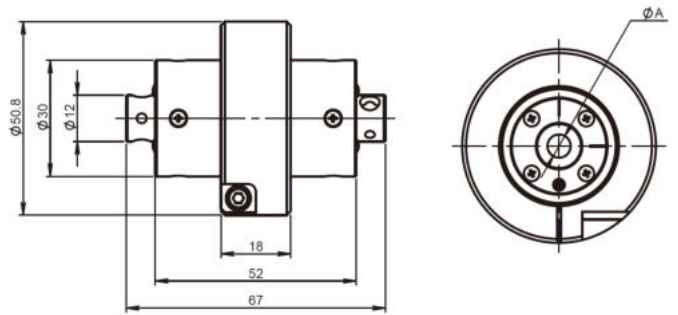
STRUCTURE DIAGRAM



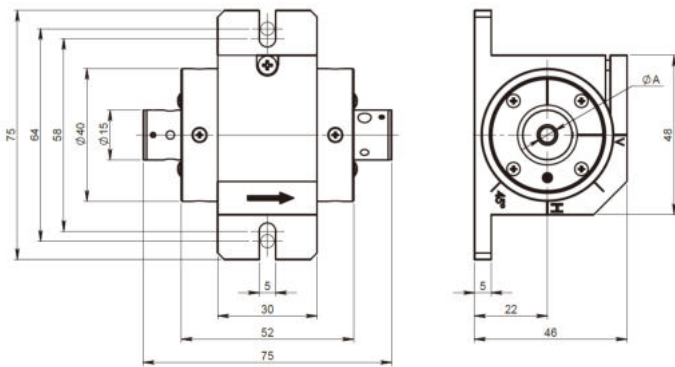
1# Package Isolator Dimensions



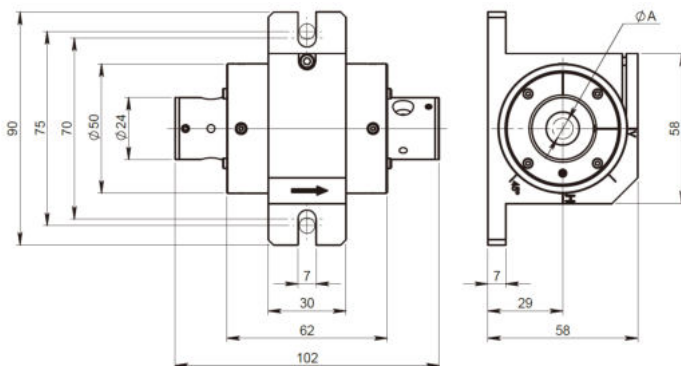
2# Package Isolator Dimensions



2# Standard Base of Isolator



3# Package Isolator Dimensions



4# Package Isolator Dimensions

