

Faraday Rotator



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

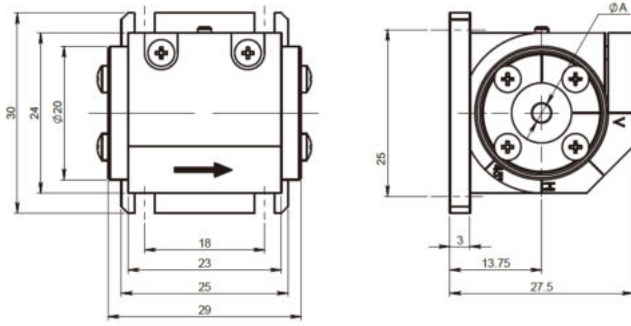


PARAMETERS

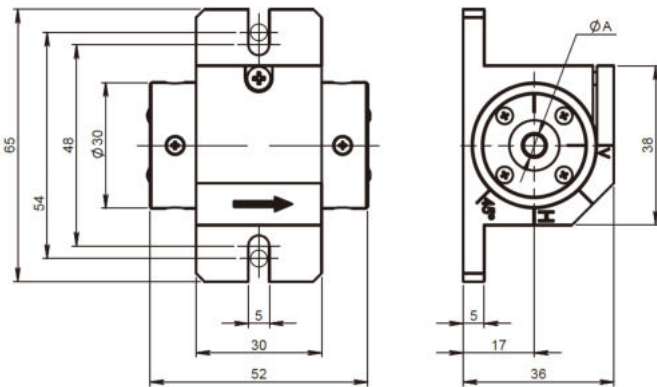
Center Wavelength	Model	Clear Aperture	Rotation Angle	Extinction Ratio	Transmittance	Damage Threshold @10ns	Package Form
405nm	CL405-2.5-FP001	2.5mm	45°±1°	>30dB	>90%	3.5J/cm ²	1#
	CL405-5-FP002	5mm	45°±1°	>30dB	>95%	3.5J/cm ²	2#
532nm	CL532-2.5-FP003	2.5mm	45°±1°	>30dB	>95%	3.5J/cm ²	1#
	CL532-5-FP004	5mm	45°±1°	>30dB	>95%	3.5J/cm ²	2#
561nm	CL561-2.5-FP005	2.5mm	45°±1°	>30dB	>95%	3.5J/cm ²	1#
	CL561-5-FP006	5mm	45°±1°	>30dB	>95%	3.5J/cm ²	2#
633nm	CL633-2.5-FP007	2.5mm	45°±1°	>30dB	>95%	3.5J/cm ²	1#
	CL633-5-FP008	5mm	45°±1°	>30dB	>95%	3.5J/cm ²	2#
650nm	CL650-2.5-FP009	2.5mm	45°±1°	>30dB	>95%	3.5J/cm ²	1#
	CL650-5-FP010	5mm	45°±1°	>30dB	>95%	3.5J/cm ²	2#
670nm	CL670-2.5-FP011	2.5mm	45°±1°	>30dB	>95%	3.5J/cm ²	1#
	CL670-5-FP012	5mm	45°±1°	>30dB	>95%	3.5J/cm ²	2#
780nm	CL780-2.5-FP013	2.5mm	45°±1°	>30dB	>95%	3.5J/cm ²	1#
	CL780-5-FP014	5mm	45°±1°	>30dB	>95%	3.5J/cm ²	2#
795nm	CL795-2.5-FP015	2.5mm	45°±1°	>30dB	>95%	3.5J/cm ²	1#
	CL795-5-FP016	5mm	45°±1°	>30dB	>95%	3.5J/cm ²	2#
830nm	CL830-2-FP017	2mm	45°±1°	>30dB	>95%	3.5J/cm ²	1#
	CL830-5-FP018	5mm	45°±1°	>30dB	>95%	3.5J/cm ²	2#
850nm	CL850-2-FP019	2mm	45°±1°	>30dB	>95%	3.5J/cm ²	1#
	CL850-5-FP020	5mm	45°±1°	>30dB	>95%	3.5J/cm ²	2#
895nm	CL895-5-FP021	5mm	45°±1°	>30dB	>95%	3.5J/cm ²	2#
980nm	CL980-5-FP022	5mm	45°±1°	>30dB	>95%	3.5J/cm ²	3#
1030nm	CL1030-2.5-FP023	2.5mm	45°±1°	>30dB	>95%	5J/cm ²	3#
	CL1030-5-FP024	5mm	45°±1°	>30dB	>95%	5J/cm ²	3#
	CL1030-8-FP025	8mm	45°±1°	>30dB	>95%	5J/cm ²	4#
	CL1030-10-FP026	10mm	45°±1°	>30dB	>95%	5J/cm ²	4#
1064nm	CL1064-2.5-FP027	2.5mm	45°±1°	>30dB	>95%	5J/cm ²	3#
	CL1064-5-FP028	5mm	45°±1°	>30dB	>95%	5J/cm ²	3#
	CL1064-8-FP029	8mm	45°±1°	>30dB	>95%	5J/cm ²	4#
	CL1064-10-FP030	10mm	45°±1°	>30dB	>95%	5J/cm ²	4#



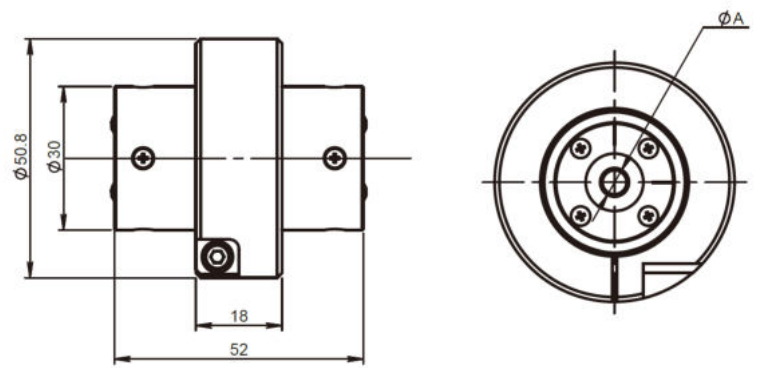
STRUCTURE DIAGRAM



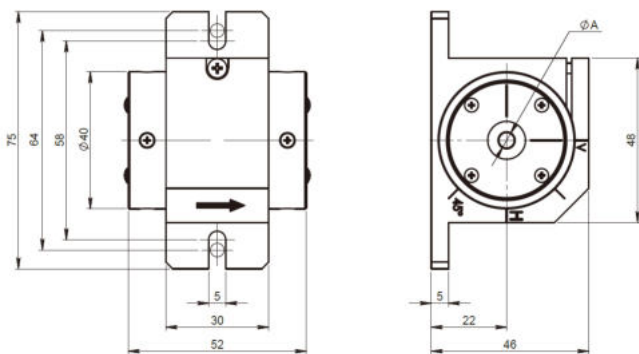
1# Package of Rotator Dimensions



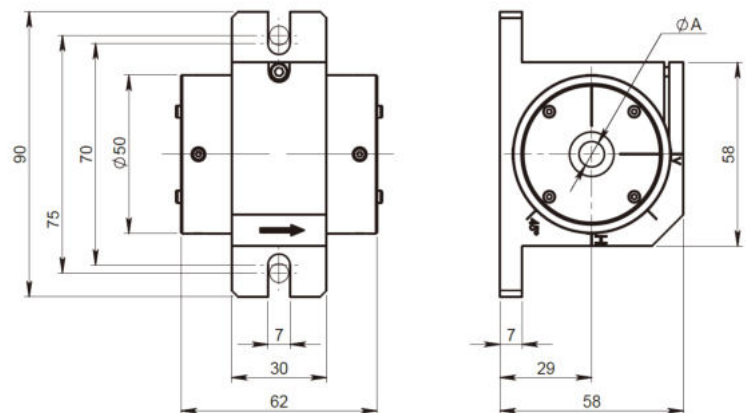
2# Package of Rotator Dimensions



2# Standard Base of Rotator



3# Package of Rotator Dimensions



4# Package of Rotator Dimensions

