

Optical Isolator for High Power Lasers

This optical isolator for high power lasers uses glass that has the highest magneto-optical performance in the industry. Its high Verdet constant allows for a great reduction in size.

Features

1. Downsizing

The installation area is reduced to 1/2 or less compared with conventional products. This increases the flexibility in the laser device design.

2. High performance

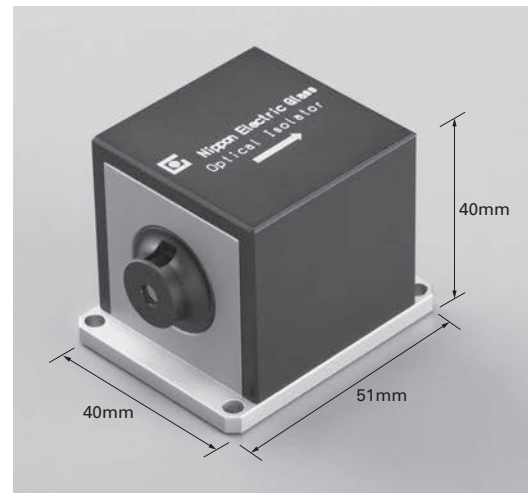
The incident light loss is 0.1dB or less and the isolation is 38dB or higher (reference values).

3. Support for higher power

A high laser damage threshold can be achieved through the use of high-performance glass parts and materials developed in-house.

4. Wide-range wavelength coverage

High transmittance from ultraviolet rays to near infrared rays (NIR)
Better magneto-optical properties than those of TGG's (TGG: $Tb_3Ga_5O_{12}$)



Outer size of prototype

Properties of Prototype

(for reference only; not guaranteed)

Wavelength	nm	1,064	
Isolation	dB	38	
Incident light loss	dB	0.1	
Pulsed damage threshold	10ns pulse	J/cm ²	>10
Aperture	mm	Φ 2	

- * Both free-space type and in-line type units are available.
- * Wavelengths other than 1,064nm are available.
- * Chassis design can be changed upon request.