

Introduction



CSRAYZER'S **High Power Free Space Isolator HIO Series Products**, which also named **Faraday Isolators**, are magneto-optical devices that only allow light to pass through in one direction. It can isolate the light source and block its back reflection. Back reflection often leads to instability of the system.

The High Power Polarization Dependent Free Space Isolator provided by CSRAYZER reserves a double escape window. It uses polarizer with a damage threshold of 500GW and a high-power magneto-optic material, with features such as high handing power, low insertion loss, high isolation, and customizable operating wavelength (700-1100nm). Faraday Isolators can effectively avoid the problems of optical damage and system instability caused by the reflected light. It is widely used in various laser systems, such as multi-level laser amplifier, optical parametric oscillator, and seed injection Laser, optical switch, optical modulator, etc.



Specification

Parameters	Unit	Values
Center Wavelength	nm	780/808/850/920/1030/1064
Operating Wavelength Range	nm	±20
Clear Aperture	mm	1.2/2.5/3/5/6/7/10/12/15
Extinction Ratio	dB	≥30
Isolation	dB	≥30
Transmission	%	≥95%
Optical Power	W	5/10/20/50/100/Specify
Damage threshold	J/cm ²	10@10ns
Working Temperature	°C	0 to 60
Storage Temperature	°C	-20 to 70

Ordering Information

HIO-①-②-③-④

① Clear Aperture	② Center Wavelength	③ Handling Power	④ Package Dimension
2.5-2.5mm	780-780nm	HP-High Power	C1-113*54*54mm
3-3mm	920-920nm	LP-Lower Power	C2-81*52*38mm
5-5mm	1064-1064nm		
S-Specify	S-Specify		