

Introduction

Rayzer's **High Power Free Space Faraday Rotator(HFR)** series product, is an optical device that rotates the polarization of light due to the Faraday effect. Faraday Rotators rotate the plane of polarized light 45° in the forward direction and an additional 45° of non-reciprocal rotation in the reverse direction while maintaining the light's linear polarization. It is ideal for ultra-fast fiber laser, solid-state laser, multi-level laser amplifier, Optical parametric oscillator Ring laser, Erbium-doped fiber amplifier, or seed injecting laser and etc.



Specification

Parameters	Unit	Values							
		780	808	850	920	1030	1064	1550	2000
Center Wavelength	nm	780	808	850	920	1030	1064	1550	2000
Operating Wavelength Range	nm	±20							
Clear Aperture	mm	1.2/2.5/3/5/6/7/10/12/15/20/25/45							
Extinction	dB	≥30							
Rotation Angle	°	45±1							
Transmission	%	≥98%							
Damage Threshold	J/cm ²	10@10ns							
Handling Power	W	5/10/20/50/100/Specify							
Working Temperature	°C	0 to 60							
Storage Temperature	°C	-20 to 70							

Ordering Information

HFR-①-②-③

①Clear Aperture	②Central Wavelength	③Handling Power
2.5-2.5mm	780-780nm	HP-High Power
3-3mm	920-920nm	LP-Lower Power
5-5mm	1064-1064nm	
S-Specify	S-Specify	