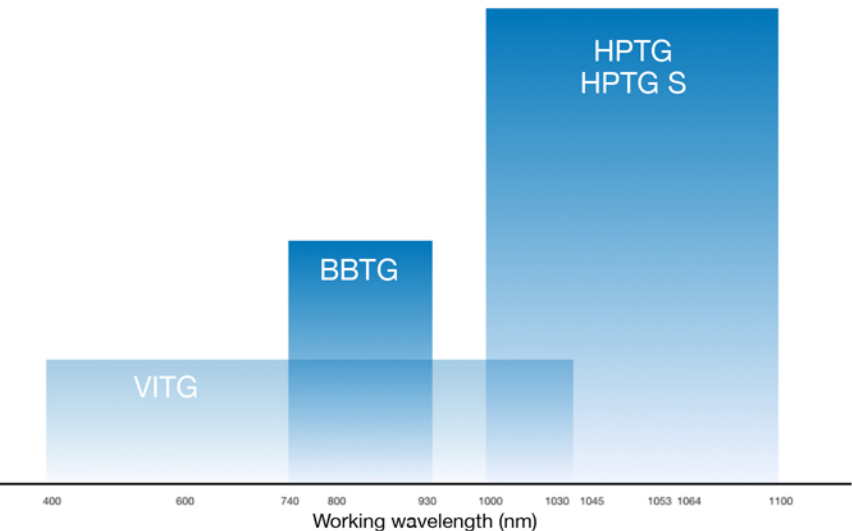


IPOptica's ROT & ISO products of Faraday devices have been designed to cover full wavelengths from 400 to 1100nm, while other wavelengths are available upon request. ROT & ISO products are always a better solution for most special demands of free space rotators and isolators by adjustable, broadband, and super large aperture available for most wavelength, at the same time with high performance.

The high quality of ROT & ISO products relay on our talents' years experience from aesthetic combined engineering design, theoretical data simulations, precision machining, and quality control, and have been specifically designed to satisfy the demands of high power damage threshold, low absorption, low insertion loss and high isolation.

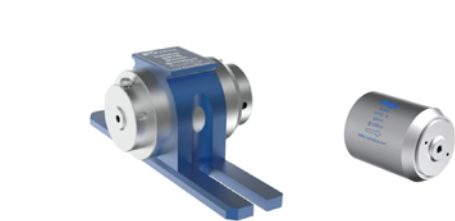
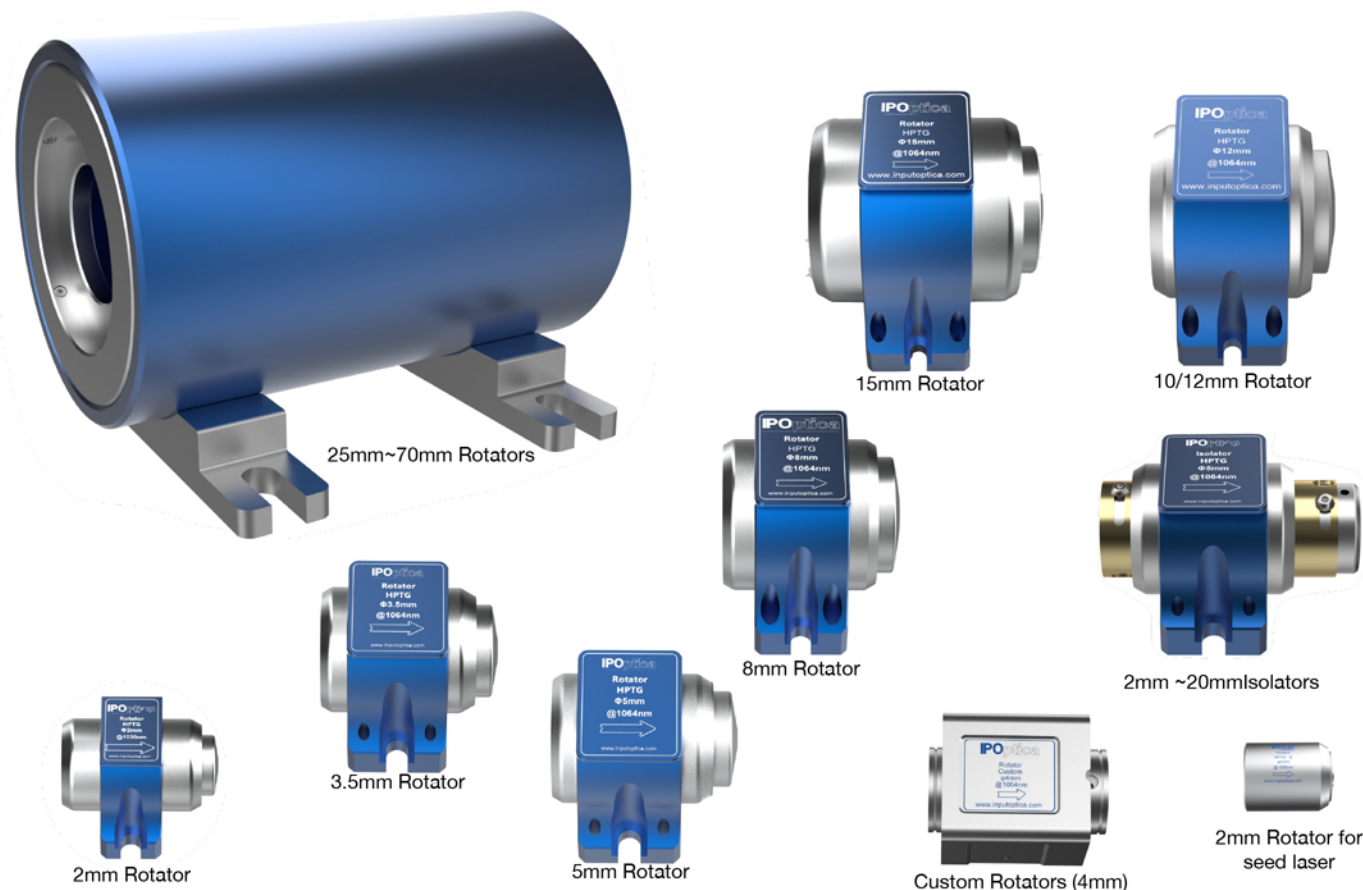


FEATURES

- High damage threshold and low insertion loss for high power application
- Low thermal lensing effect and thermal depolarization phenomena
- Orthogonal or Brewster isolated beams available upon request
- Tunable input polarization state
- Large aperture up to 70mm for 1000nm range
- Reliable quality and integrated design satisfy hostile operating environments

APPLICATIONS

- Protection of Pulsed and CW lasers against optical feedback
- Protection of seed sources by elimination of frequency instability
- Isolate ASE generated by amplifiers



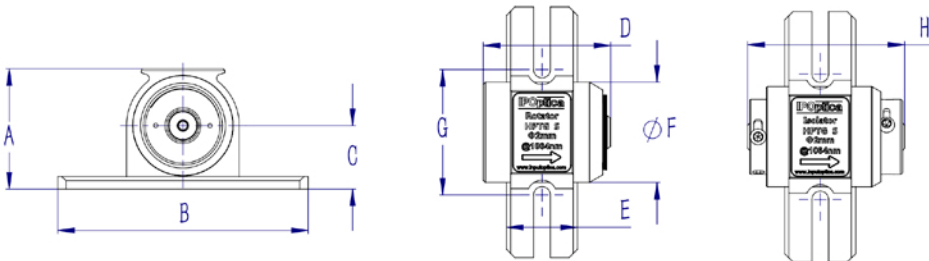
IPOptica's HPTG S line of Faraday devices have been designed to meet high power and high energy laser (1000-1100nm) demands. Benefit from over 20% Verdet Constant higher and 30% adsorption less than HPTG line, HPTG S line is awarded low thermally induced birefringence.

The high quality of HPTG S line relay on our talents' years experience from aesthetic combined engineering design, theoretical data simulations, precision machining, and quality control, and have been specifically designed to satisfy the demands of high power damage threshold, low absorption, low insertion loss and high isolation.

SPECIFICATIONS

MODEL		HPTG S
		High Power 1030nm, 1045nm, 1053nm, 1064nm (1000-1100nm)
Clear Aperture D		2mm, 3.5mm
Working Wavelength		1000 ~ 1090nm
Rotation (Peak)		45° ± 0.5°
Damage Threshold		10J/cm² @ 10ns (MAX 15J/cm² on request) 1J/cm² @ 8ps (MAX 1.5J/cm² on request)
Transmission Rate, %		>98% (Rotator) >96% (Isolator)
Storage Temp Range		-40°C ~70°C
Tunable Temp Range		20°C ± 10°C / On request
Peak Isolation		>35dB (Isolator)
Isolated Beam Pointing		<5 mrad

DIMENSIONS



	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)
2mm	28.85	60	15.2	30.6	17	24	30	37.6
3.5mm	35.6	60	22.2	45.6	17	38	50	61.5