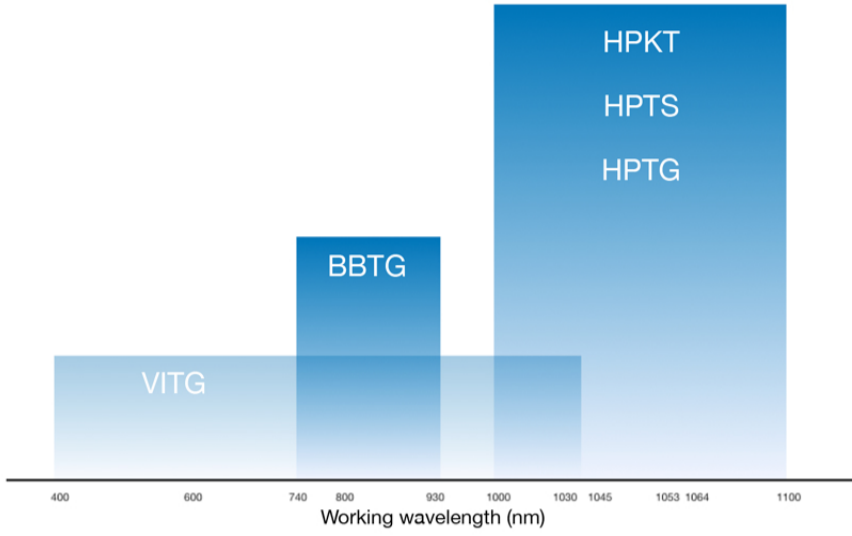


IPOptica is always focusing on the future, to further develop technology and better satisfy broad applications, and always a better solution for most special demands of free space Rotators and Isolators by adjustable, broadband, and super large aperture available for most wavelength, at the same time with high performance and reliable. IPOptica's Faraday Devices have been designed to cover full wavelengths from 400 to 1100nm, while other wavelengths are available upon request.

IPOptica respect talents and their 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.

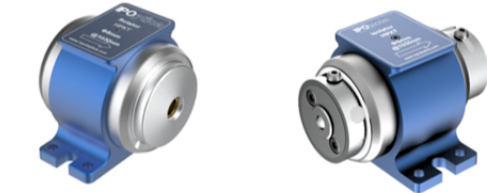
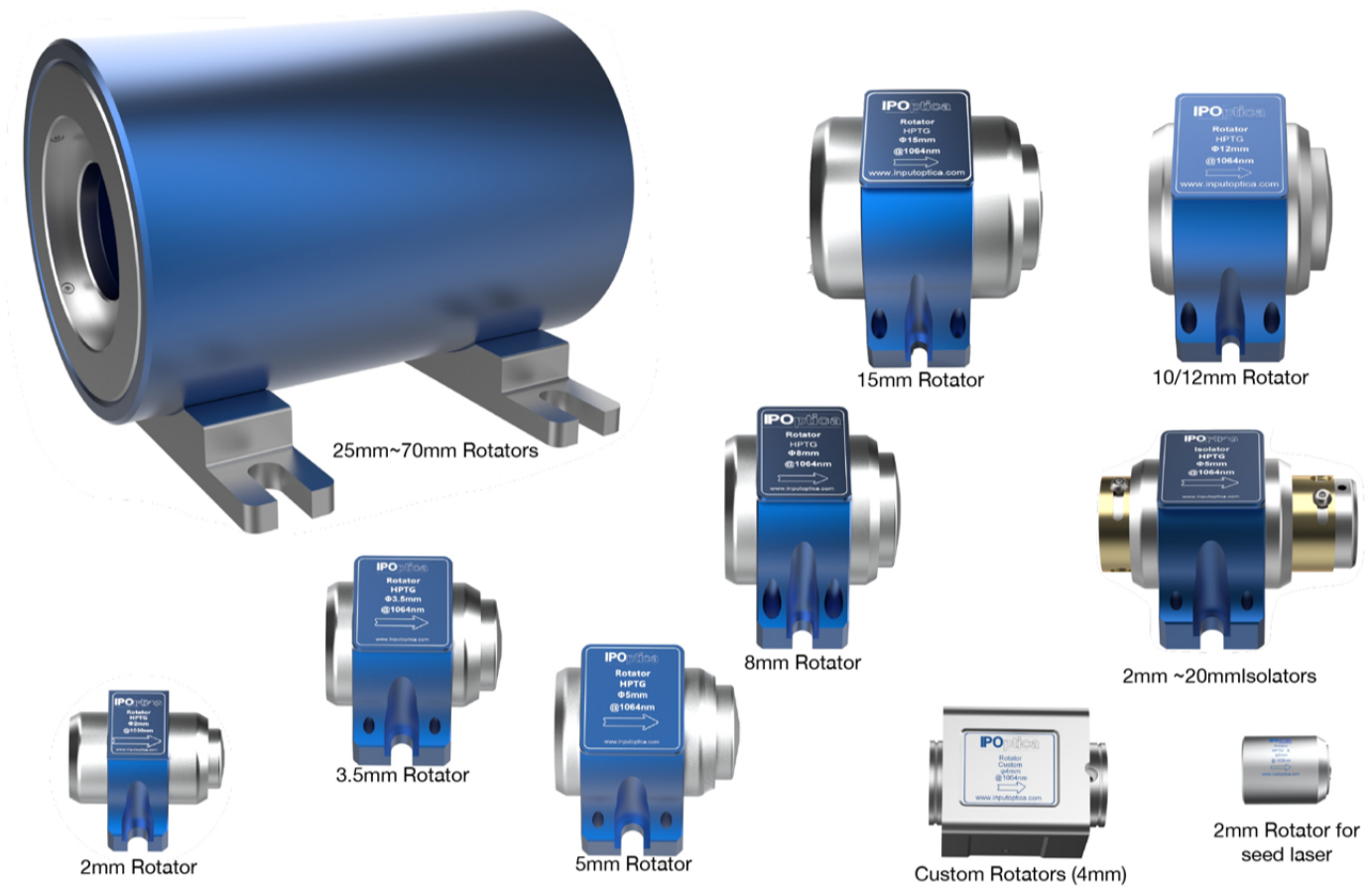


### FEATURES

- 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



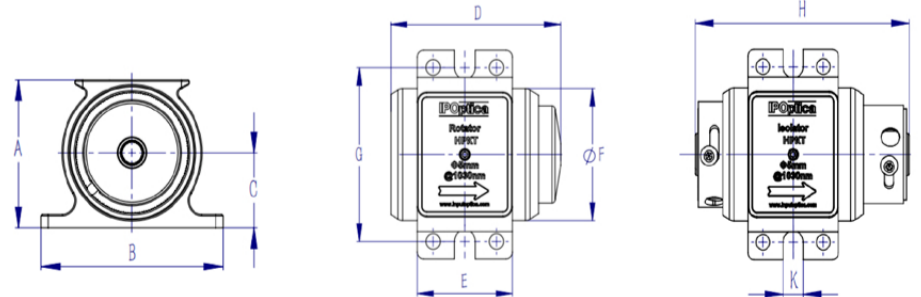
HPKT series is making superior Faraday Rotators & Isolators providing higher extinction at high incident power, an order of lower absorption and Thermo-optic Coefficient, making it a better solution for ultra-fast and high power applications with respect to HPTG series. HPKT series focusing on 1000-1100nm market demands with specified performance up to 400W and without damage over 1.1kW of average power testing.

The high quality of HPKT series rely 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, lower nonlinear refractive index, lower focal shift, lower thermo effect, lower absorption, lower insertion loss and higher isolation.

### SPECIFICATIONS

MODEL	HPKT High Power 1030nm, 1045nm, 1053nm, 1064nm (1000-1100nm)
Clear Aperture D	3.5mm, 5mm, 8mm, 10mm, 12mm
Working Wavelength	1000 ~ 1090nm
Rotation (Peak)	45° ± 0.5°
Damage Threshold (@1064nm)	>7J/cm² @ 10ns >600mJ/cm² @ 8ps
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)	K(mm)
3.5mm	43	60	22.2	53.6	30	38	50	70.6	6.6
5mm	43	60	22.2	53.6	30	38	50	70.6	6.6
8mm	54.4	72	27.6	56.6	30	49.4	62	82.4	6.6
10mm	71.2	90	35.1	71.6	40	64.2	70	107.6	6.6
12mm	71.2	90	35.1	71.6	40	64.2	70	107.6	6.6