IPOptica
InPut Optica Technology, LLC.

Rotator & Isolator
Faraday Devices

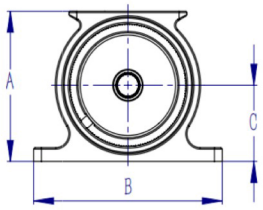
HPKT series is making superior Faraday Rotators & Isolators providing higher extinction at high incident power, an order of lower absorption and Thermo-optic Coefficient, making it a better solution for ultra-fast and high power applications with respect to HPTG series. HPKT series focusing on 1000-1100nm market demands with specified performance up to 600W and without damage over 2.6kW of average power testing.

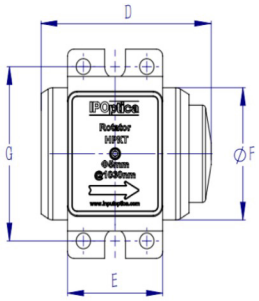
The high quality of HPKT series relay on our talents' years experience from aesthetic combined engineering design, theoretical data simulations, precision machining, and quality control, and have been specifically designed to satisfy the demands of high power damage threshold, lower nonlinear refractive index, lower focal shift, lower thermo effect, lower absorption, lower insertion loss and higher isolation.

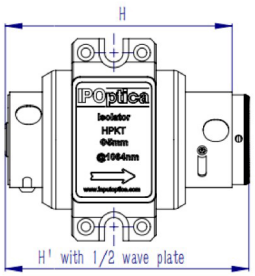
SPECIFICATIONS

MODEL	HPKT High Power 1030nm, 1045nm, 1053nm, 1064nm (1000-1100nm)
Clear Aperture D	3.5mm, 5mm, 8mm, 10mm, 12mm, 15mm, 20mm
Working Wavelength	1000 ~ 1090nm
Rotation (Peak)	45° ± 0.5°
Damage Threshold (@1064nm)	>7J/cm² @ 10ns >600mJ/cm² @ 8ps
Peak Isolation	>35dB (Isolator)
Transmission Rate, %	>98% (Rotator) >96% (Isolator)
Storage Temp Range	-40°C ~ 70°C
Tunable Temp Range	20°C ± 10°C / On request
Isolated Beam Pointing	<3 mrad

DIMENSIONS







	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	H'(mm)
3.5mm	43	60	22.2	40.5	25	38	45	59.9	63.8
5mm	43	60	22.2	52.5	30	38	50	71.9	75.7
8mm	54.4	72	27.6	57.5	30	49.4	60	82.9	86.7
10mm	71.3	90	36.2	72	40	64.2	70	110.2	115
12mm	71.3	90	36.2	72	40	64.2	70	110.2	115
15mm	79.2	100	39.2	101.4	50	72.2	76	144.2	148.3
20mm	79.2	100	39.2	118	50	72.2	76	175.2	182

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