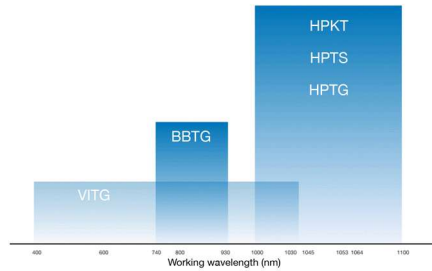


IPOptica is always focusing on the future, to further develop technology and better satisfy broad applications, and always a better solution for most special demands of free space Rotators and Isolators by adjustable, broadband, and super large aperture available for most wavelength, at the same time 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



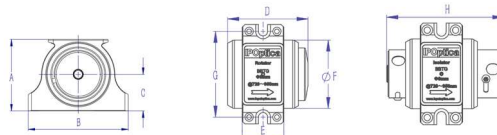
IPOptica's MPBB line of Faraday devices have been designed to minimum pulse broadening by unique short optical path length and low reflective indices. This results the great broadband wavelength protection to the ultra-short laser pulses at from 720nm to 950nm.

The high quality of MPBB line 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, low absorption, low insertion loss and high isolation.

**SPECIFICATIONS**

MODEL	BBTG	
	Broadband 810nm (720 ~ 950nm)	
Clear Aperture D	5mm	8mm, 10/12mm (up to 50mm)
Working Wavelength	720 ~ 950nm	
Rotation (Peak)	90° ± 1°	
Damage Threshold	3.4J/cm² @ 10ns 1J/cm² @ 10ns	5J/cm² @ 10ns 2kW/cm² CW
Transmission Rate, %	>98% (Rotator) >93% (Isolator)	
Storage Temp Range	-40°C ~ 70°C	
Peak Isolation @22°C	>35dB (Isolator)	

**DIMENSIONS**



	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)
5mm	43	60	22.2	53.6	30	38	50	67.6
8mm	43	60	22.2	53.6	30	38	50	75
10/12mm	54.4	72	28.6	57.2	30	49.4	60	92