

Rotating Retarder Modules

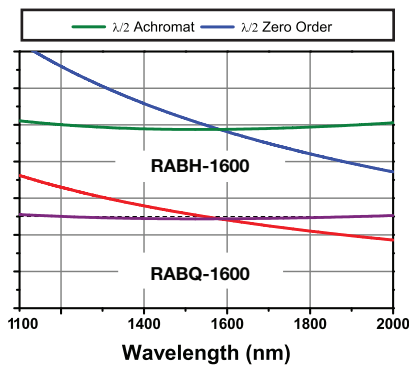
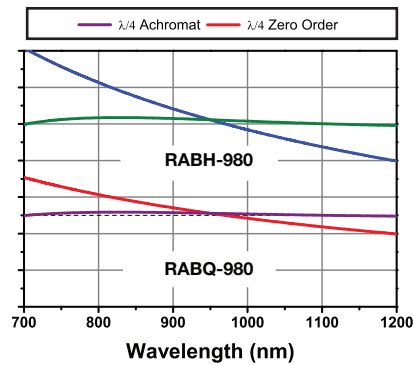
FiberBench retarders are mounted in a precision 360° rotation fixture. The mount has engraved degree marks and a knurled outer edge that allows for an alignment precision of 1.5°. The AR-coated retarders only contribute 0.1 dB OF additional insertion loss and are easily removed and replaced. The rotating plate holding the retarder can be removed from the magnetic mount, which simplifies optics changes. Quarter- and half-wave modules can be used to create polarization controllers, PM fiber launch systems, and other devices.

Zero-Order

The Zero-Order retarder module is a compound plate design with an epoxy-free beam path. The plates are air-spaced to provide a high-power beam path. The beam deviation and transmitted wavefront error are both minimal.

Features

- Compound Plate Design
- Crystal Quartz
- Epoxy-Free Beam Path
- Use for ± 10 nm
- Air-Spaced Construction
- High-Power Applications (2 MW/cm² CW, 2 J/cm² @ 10 ns Pulse)
- Engraved Angle Index



Achromatic

The Achromatic retarder module is a compound plate design using Crystal Quartz and MgF₂. The plates are air-spaced to provide a high-power beam path. The beam deviation and transmitted wavefront error are both minimal. Achromatic retarders are best for applications that have greater than 20 nm bandwidths.

Features

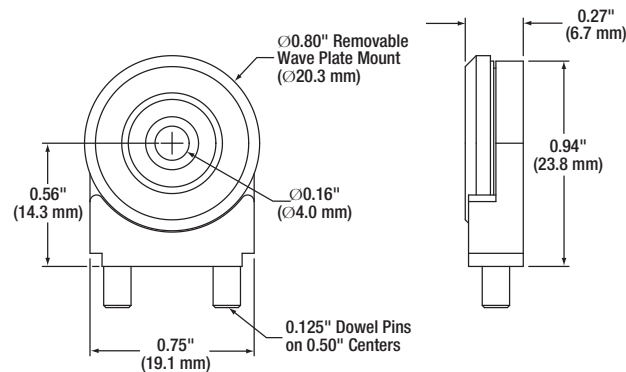
- Compound Plate Design
- Crystal Quartz and MgF₂
- Epoxy-Free Beam Path
- Flat Spectral Response
- Air-Spaced Construction
- High-Power Applications (2 MW/cm² CW, 2 J/cm² @ 10 ns Pulse)
- Engraved Angle Index

Specifications

- Aperture: Ø4 mm
- Beam Deviation: ≤ 10 arcsec
- Wavefront Error: $< \lambda/4$
- Scratch Dig: 40-20
- 360° Rotation
- 1.5° Measurement Precision



Please refer to our website for complete models and drawings.



Rotating Zero-Order Retarder Modules

ITEM# ($\lambda/4$)	ITEM# ($\lambda/2$)	\$	£	€	RMB	DESCRIPTION
RZBQ-633	RZBH-633	\$ 402.90	£ 279.30	€ 357.70	¥ 3,402.10	Rotating Zero-Order Wave Plate for 633 $\pm$ 10 nm
RZBQ-780	RZBH-780	\$ 402.90	£ 279.30	€ 357.70	¥ 3,402.10	Rotating Zero-Order Wave Plate for 780 $\pm$ 10 nm
RZBQ-800	RZBH-800	\$ 402.90	£ 279.30	€ 357.70	¥ 3,402.10	Rotating Zero-Order Wave Plate for 800 $\pm$ 10 nm
RZBQ-850	RZBH-850	\$ 402.90	£ 279.30	€ 357.70	¥ 3,402.10	Rotating Zero-Order Wave Plate for 850 $\pm$ 10 nm
RZBQ-1064	RZBH-1064	\$ 402.90	£ 279.30	€ 357.70	¥ 3,402.10	Rotating Zero-Order Wave Plate for 1064 $\pm$ 10 nm
RZBQ-1550	RZBH-1550	\$ 402.90	£ 279.30	€ 357.70	¥ 3,402.10	Rotating Zero-Order Wave Plate for 1550 $\pm$ 10 nm

Rotating Achromatic Retarder Modules

ITEM# ($\lambda/4$)	ITEM# ($\lambda/2$)	\$	£	€	RMB	DESCRIPTION
RABQ-980	RABH-980	\$ 500.00	£ 346.70	€ 444.00	¥ 4,222.10	Rotating Achromatic Wave Plate, Wavelength Range: 700 - 1200 nm
RABQ-1600	RABH-1600	\$ 500.00	£ 346.70	€ 444.00	¥ 4,222.10	Rotating Achromatic Wave Plate, Wavelength Range: 1100 - 2000 nm