

Rotating Achromatic Wave Plate Modules

NEW
versions

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.

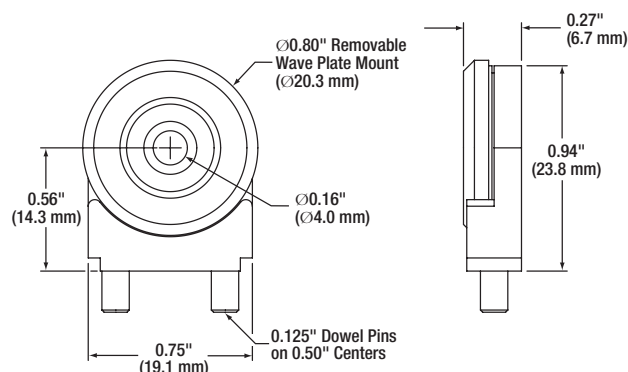
The achromatic wave plate module is a compound plate design using Crystal Quartz and MgF₂. The plates are air-spaced to provide a high-power beam path. The beam deviation and transmitted wavefront error are both minimal. Zero-order wave plates are available upon request. Please contact Tech Support.

Features

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

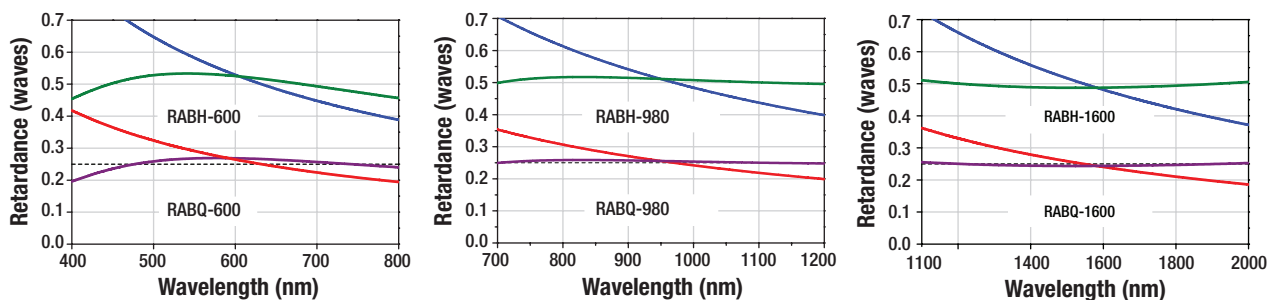
Specifications

- Aperture: Ø4 mm
- Beam Deviation: ≤10 arcsec
- Wavefront Error: <λ/4
- Surface Quality: 20-10 Scratch-Dig
- 360° Rotation
- 1.5° Measurement Precision



Please refer to our website for complete models and drawings.

Retardance Performance Comparison: Achromatic vs. Zero Order



λ/4 Rotating Achromatic Wave Plate Modules

ITEM #	\$	£	€	RMB	DESCRIPTION
RABQ-600	\$ 300.00	£ 216.00	€ 261.00	¥ 2,391.00	Rotating Achromatic λ/4 Wave Plate, Wavelength Range: 400 - 800 nm
RABQ-980	\$ 300.00	£ 216.00	€ 261.00	¥ 2,391.00	Rotating Achromatic λ/4 Wave Plate, Wavelength Range: 700 - 1200 nm
RABQ-1600	\$ 300.00	£ 216.00	€ 261.00	¥ 2,391.00	Rotating Achromatic λ/4 Wave Plate, Wavelength Range: 1100 - 2000 nm

λ/2 Rotating Achromatic Wave Plate Modules

ITEM #	\$	£	€	RMB	DESCRIPTION
RABH-600	\$ 300.00	£ 216.00	€ 261.00	¥ 2,391.00	Rotating Achromatic λ/2 Wave Plate, Wavelength Range: 400 - 800 nm
RABH-980	\$ 300.00	£ 216.00	€ 261.00	¥ 2,391.00	Rotating Achromatic λ/2 Wave Plate, Wavelength Range: 700 - 1200 nm
RABH-1600	\$ 300.00	£ 216.00	€ 261.00	¥ 2,391.00	Rotating Achromatic λ/2 Wave Plate, Wavelength Range: 1100 - 2000 nm