

## Optics

Optical Systems

Free Space Isolators

E-O Devices

Spherical Singlets

Multi-Element Lenses

Cylindrical Lenses

Aspheric Lenses

Mirrors

Diffusers & Lens Arrays

Windows

Prisms

Gratings

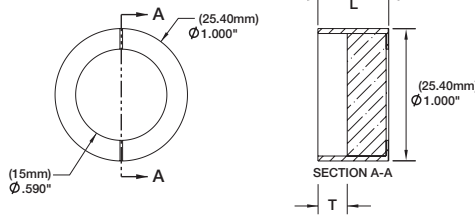
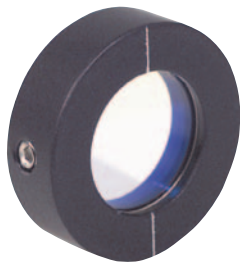
**Polarization Optics**

Beamsplitters

Filters & Attenuators

Gas Cells

# Z-Cut Quartz Polarization Rotator



This optically active crystal quartz polarization rotator is unique in that the rotation is not a function of alignment. Thorlabs offers standard 45° and 90° rotation.

### Specifications

- **Material:** Crystal Quartz
- **Diameter:** 25.4mm (1.00")
- **Surface Quality:** 10-5 Scratch Dig
- **Surface Flatness:**  $\lambda/10$  @ 633nm
- **Diameter:** 25.4mm +0.00/-0.2mm
- **Parallelism:**  $\leq 0.5$ second
- **Rotation:** +/-0.5deg
- **Clear Aperture:** 15mm
- **Coating:** V-Coat

- Insensitive to Alignment
- Optically Active Quartz
- High Damage Threshold

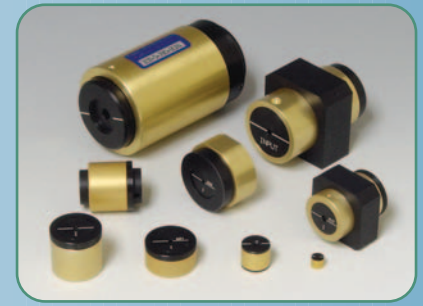
ITEM#	WAVELENGTH	ANGLE OF ROTATION	CRYSTAL THICKNESS, T	MOUNT THICKNESS, L	\$	£	€	RMB
ZCQ-45-532	532nm	45°	1.66mm	7.6mm	\$ 475.00	£ 299.30	€ 441.80	¥ 4,536.30
ZCQ-90-532	532nm	90°	3.33mm	7.6mm	\$ 560.00	£ 352.80	€ 520.80	¥ 5,348.00
ZCQ-45-633	633nm	45°	2.4mm	7.6mm	\$ 475.00	£ 299.30	€ 441.80	¥ 4,536.30
ZCQ-90-633	633nm	90°	4.81mm	7.6mm	\$ 560.00	£ 352.80	€ 520.80	¥ 5,348.00
ZCQ-45-780	780nm	45°	3.73mm	7.6mm	\$ 475.00	£ 299.30	€ 441.80	¥ 4,536.30
ZCQ-90-780	780nm	90°	7.46mm	13.6mm	\$ 560.00	£ 352.80	€ 520.80	¥ 5,348.00
ZCQ-45-820	820nm	45°	4.24mm	7.6mm	\$ 475.00	£ 299.30	€ 441.80	¥ 4,536.30
ZCQ-90-820	820nm	90°	8.49mm	13.6mm	\$ 560.00	£ 352.80	€ 520.80	¥ 5,348.00
ZCQ-45-1064	1064nm	45°	7.13mm	13.6mm	\$ 475.00	£ 299.30	€ 441.80	¥ 4,536.30
ZCQ-90-1064	1064nm	90°	14.26mm	17.0mm	\$ 560.00	£ 352.80	€ 520.80	¥ 5,348.00
ZCQ-45-1300	1300nm	45°	10.86mm	13.6mm	\$ 475.00	£ 299.30	€ 441.80	¥ 4,536.30
ZCQ-90-1300	1300nm	90°	21.71mm	24.4mm	\$ 560.00	£ 352.80	€ 520.80	¥ 5,348.00

TOOLS  
OF THE  
TRADE



## Free-Space Optical Isolators

- **Narrowband:** Adjustable or Fixed Wavelength
- **Broadband:** Adjustable or Fixed Wavelength
- Polarization Dependent or Polarization Independent
- High-Power and Low-Power Versions



See Page 671

## Polarization Controller Kit for 1550nm

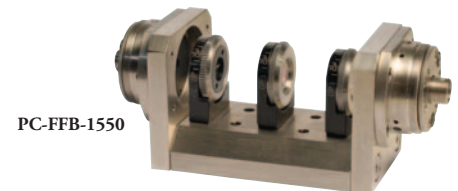
This polarization controller kit is assembled from a FiberBench, FiberPorts, and other component modules, all of which are included. The bench controller has the same functionality as a paddle controller, but offers a more deterministic and more stable polarization control. The kit contains three rotating zero-order wave plates (1/4, 1/2, and 1/4). The retarders have precise continuous rotation through 360° and can produce any possible polarization state.

### Features

- Mechanical and Thermal Stability
- Deterministic Polarization Control

ITEM#	\$	£	€	RMB
PC-FFB-1550	\$ 2,320.00	£ 1,461.60	€ 2,157.60	¥ 22,156.00

### Polarization Controller



The kit is supplied assembled but not aligned. Fiber cables are not included. They can be purchased separately, see page 1058.

### Includes:

- 1 FiberBench
- 1 Half Wave Retarder
- 2 FiberPorts
- 2 Quarter Wave Retarder