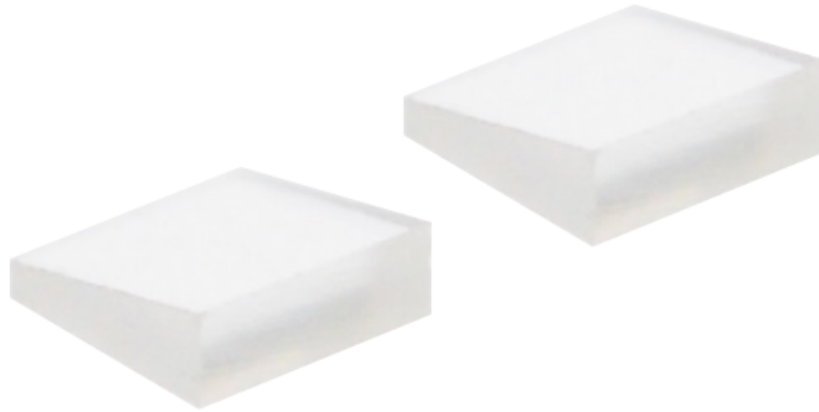


BIREFRINGENT WEDGE

A birefringent wedge divides a light beam into two orthogonally polarized beams with polarization parallel to the optical axis by a larger angle. Birefringent wedges are often made of YVO₄ or LiNbO₃, and are widely used in fiber-optic devices such as isolators and circulators. Coherent offers superior-quality YVO₄ and LiNbO₃ birefringent wedges for a variety of applications.



APPLICATIONS

- WSS
- Isolators
- PBC
- Wollaston prisms

BIREFRINGENT WEDGE

Common Specifications

| Material | YVO4 LiNbO3 |
|-----------------------------|---|
| Typical Dimension | 1 x 1 mm, 1.25 x 1.25 mm |
| O. A. Orientation Tolerance | +/- 0.1° |
| Flatness | $\lambda/10$ @632.8 nm |
| Wavefront Distortion | $\lambda/10$ @632.8 nm |
| Surface Quality | (scratch/dig) better than 10-5 |
| AR Coating | $R < 0.20\%$ @ $\lambda_c \pm 40$ nm, $\lambda_c = 1310, 1550$ nm |

Other sizes, coatings, and orientations of optical axis are available upon request.

Dimensions

