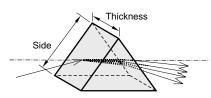
LASER DISPERSING PRISMS

- Separate light by wavelength
- Are made so that entrance and exit beams pass through at the Brewster angle

Like Brewster angle windows, laser dispersing prisms can be used inside the cavity of a laser operating on very low gain laser transitions, where even slight reflection losses may be intolerable.

Contact us for other types of prisms e.g. trapezoidal, various isosceles, Dove, Amici, Penta, etc.

Custom fabrication also available: coating, cutting, edging, drilling according to your specification.



SPECIFICATIONS

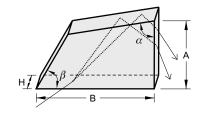
| Material | BK7, FS, UV FS, SF11 |
|----------------------|------------------------------------|
| Surface quality | 40–20 scratch & dig |
| Surface flatness | λ/4 @ 633 nm |
| Apex angle tolerance | ±2 arcmin |
| Size | 25 mm side length, 18 mm thickness |
| Design wavelength | 800 nm |
| | |

| Material | Catalogue number | Price, EUR |
|----------|------------------|------------|
| BK7 | 320-0218 | 69 |
| UV FS | 320-1218 | 125 |
| FS | 320-3218 | 117 |
| SF11 | 320-8218 | 95 |

PELLIN-BROCA PRISMS

- Extremely small loss of a p-polarized beam
- Light separated by wavelength is conveniently turned at an 90° angle with minimum deviation
- FS prisms provide 1.26° separation between 532 nm and 1,064 nm

In a Pellin-Broca prism, an ordinary dispersing prism is split in half along the bisector of the apex angle. Using a right angle prism, the two halves are joined to create a dispersing prism with an internal right angle bend obtained by total internal reflection. The entrance beam is deviated at an 90° angle to its initial direction.



SPECIFICATIONS

| | Material | BK7, FS, UV FS |
|--|-------------------|---|
| | Surface quality | 20–10 scratch & dig |
| | Surface flatness | λ/10 @ 633 nm |
| | Angles | $\alpha = 79.5^{\circ} \pm 0.5^{\circ}, \ \beta = 60^{\circ} \pm 1^{\circ}$ |
| | Design wavelength | 546.1 nm |
| | Dimensions | ± 0.2 mm |
| | Clear aperture | > 80% of dimensions |
| | | |

HOUSING ACCESSORIES



| Material | Catalogue number | A, mm | B, mm | H, mm | Price, EUR |
|----------|------------------|-------|-------|-------|------------|
| matorial | 325-0206 | 11.0 | 20.0 | 6.4 | 57 |
| BK7 | 325-0412 | 23.5 | 40.0 | 12.7 | 63 |
| | 325-1206 | 11.0 | 20.0 | 6.4 | 110 |
| UV FS | 325-1215 | 15.0 | 26.0 | 15.0 | 121 |
| | 325-1412 | 23.5 | 40.0 | 12.7 | 150 |
| | 325-3206 | 11.0 | 20.0 | 6.4 | 89 |
| FS | 325-3215 | 15.0 | 26.0 | 15.0 | 97 |
| | 325-3412 | 23.5 | 40.0 | 12.7 | 120 |