## LASER DISPERSING PRISMS

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Separate light by wavelength
Are made so that entrance and exit beams pass
    through at the Brewster angle
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Like Brewster angle windows，laser dispersing prisms can be used inside the cavity of a laser operating on very low gain laser transi－ tions，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 | $N 4 @ 633 \mathrm{~nm}$ |
| Apex angle tolerance | $\pm 2$ 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 $90^{\circ}$ angle with minimum deviation
FS prisms provide $1.26^{\circ}$ separation between 532 nm and $1,064 \mathrm{~nm}$

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 $90^{\circ}$ angle to its initial direction．


## SPECIFICATIONS

| Material |  | BK7，FS，UV FS |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Surface quality |  | 20－10 scratch \＆dig |  |  |
| Surface flatness |  | N／10＠ 633 nm |  |  |
| Angles |  | $\alpha=79.5^{\circ} \pm 0.5^{\circ}, \beta=60^{\circ} \pm 1^{\circ}$ |  |  |
| Design wavelength |  | 546.1 nm |  |  |
| Dimensions |  | $\pm 0.2 \mathrm{~mm}$ |  |  |
| Clear aperture |  | ＞80\％of dimensions |  |  |
| logue number | A，mm | B，mm | H，mm | Price，EUR |
| 325－0206 | 11.0 | 20.0 | 6.4 | 57 |
| 325－0412 | 23.5 | 40.0 | 12.7 | 63 |
| 325－1206 | 11.0 | 20.0 | 6.4 | 110 |
| 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 |
| 325－3215 | 15.0 | 26.0 | 15.0 | 97 |
| 325－3412 | 23.5 | 40.0 | 12.7 | 120 |

