

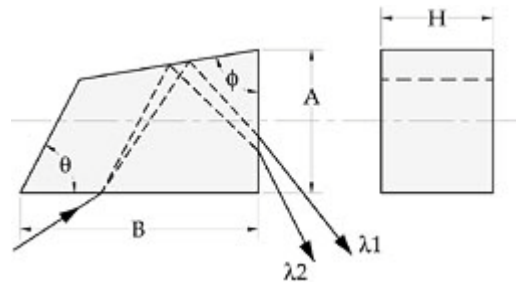
# LASER QUALITY PELLIN-BROCA PRISMS

Pellin Broca prisms are constant deviation ( $90^\circ$ ) dispersing prisms. The input angle is arranged so that total internal reflection occurs at the internal face. This will provide a constant  $90^\circ$  deflection for the beam with dispersion. If the input beam enters the long side of the prism the longer wavelengths will be deviated less.

These prisms provide a convenient way to compensate for group velocity dispersion in ultra-fast lasers or to separate harmonic wavelengths in an incoming laser beam.

## Standard Specifications:

Optical Material:	BK7, Fused Silica
Dimension Tolerance:	+0.0,-0.15mm
Clear Aperture:	>90%
Angular Tolerance:	$\pm 30$ arc minutes
Surface Quality:	20-10 scratch and dig
Wavefront Distortion:	$\lambda/10$ at 632.8nm
Bevel:	<0.25mm X $45^\circ$
Coating:	available upon request



## Standard Laser Quality Equilateral Prism

Size A(mm)	Size B(mm)	Size H(mm)	Angular $\phi$	Angular $\theta$	Product Number
<b>BK7 Glass (330-2100 nm)</b>					
11.0	20.0	12.7	$79.5^\circ$	$60^\circ$	UQT-LPBB0101
23.5	40.0	12.7	$79.5^\circ$	$60^\circ$	UQT-LPBB0102
36.0	60.0	12.7	$79.5^\circ$	$60^\circ$	UQT-LPBB0103
<b>UV Grade Fused Silica (200-2500 nm)</b>					
11.0	20.0	12.7	$79.5^\circ$	$60^\circ$	UQT-LPBF0201
23.5	40.0	12.7	$79.5^\circ$	$60^\circ$	UQT-LPBF0202
36.0	60.0	12.7	$79.5^\circ$	$60^\circ$	UQT-LPBF0203

Please Contact [ultiQuest](#) for other dimensions in prototype and production quantities.

## NOTES!

- ➔ Please contact us for OEM with mass production..
- ➔ Every edge of these prisms is chamfered (beveled) for chipping prevention. The dimensions of these prisms are values not including chamfer.
- ➔ Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.