

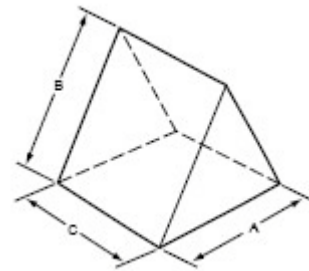
# LASER QUALITY DISPERSION PRISMS

Equilateral Prisms are used routinely as dispersing elements where spectral separation is required. They provide better brightness (lower stray light) than diffraction gratings. They also have greater power handling capabilities and avoid possible confusion when trying to interpret overlapping spectral orders. It must be remembered that dispersion is non-linear with wavelength and that surface reflection losses may affect throughput.

ultiQuest Technology offers Equilateral Prisms in three materials designed to suit a wide variety of dispersion, wavelength and surface reflection requirements. In general, a higher refractive index material produces greater angular separation.

## Standard Specifications:

Optical Material:	BK7, Fused Silica, SF10
Dimension Tolerance:	+0.0, -0.15mm
Clear Aperture:	>90%
Angular Tolerance:	±5 arc minutes
Surface Quality:	20-10 scratch and dig
Wavefront Distortion:	$\lambda/2$ at 632.8nm
Bevel:	<0.25mm X 45°
Coating:	available upon request



## Standard Laser Quality Equilateral Prism

Size A=B(mm)	Size C(mm)	Product Number
<b>BK7 Glass (330-2100 nm)</b>		
15	15	UQT-LEPB0101
20	20	UQT-LEPB0102
25	25	UQT-LEPB0103
30	30	UQT-LEPB0104
40	40	UQT-LEPB0105
<b>UV Grade Fused Silica (200-2500 nm)</b>		
15	15	UQT-LEPF0201
20	20	UQT-LEPF0202
25	25	UQT-LEPF0203
30	30	UQT-LEPF0204
40	40	UQT-LEPF0205
<b>SF10 Glass (400-2400 nm)</b>		
15	15	UQT-LEPS0301
20	20	UQT-LEPS0302
25	25	UQT-LEPS0303
30	30	UQT-LEPS0304
40	40	UQT-LEPS0305

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.