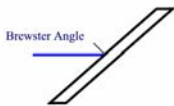


# Brewster Windows



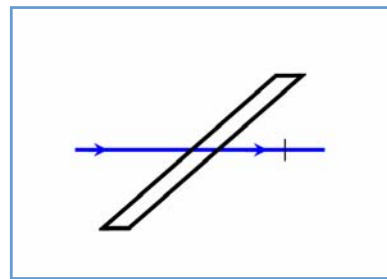
Brewster windows are used in laser cavities to reject the s-polarized beam and to allow only linearly p-polarized light to be emitted. They are designed for use at the Brewster angle where the reflective polarization effect is most efficient.



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These windows are cut at the appropriate angle so that they present a circular cross-section to the laser cavity. They are made either of BK7 with a Brewster angle of  $56.5^\circ$  or UV fused silica with a Brewster angle of  $56.0^\circ$ . Brewster windows are polished to 10/5 or better to be of intra-cavity laser quality. Flatness is not so critical, so they can be made to a flatness of between  $\lambda/2$  and  $\lambda/4$ . This enables them to be kept relatively thin, between 1.5 and 2.0 mm.

We offer standard Brewster windows in elliptical shapes with a minor axis of 12.7, 15.0, 19.1 or 25.4 mm:



Other sizes can be quoted on request.

These windows are uncoated, but we will be pleased to offer coatings to meet your special requirements.

Typical Specifications	
Substrate Material:	BK7A or UVFS
Surface flatness:	$\lambda/2$ , or $\lambda/4$
Surface quality:	10-May
Parallelism:	< 3 arcmin
Diameter:	+0.0 / -0.2 mm
Thickness:	$\pm 0.25$ mm
Clear aperture:	> 85% of diameter

**To request a quote or to order, please specify:**

Quantity — Material — Minor Axis — Coating Requirements

## Optarius

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For a quotation — please phone, fax or email us with details of your requirements.