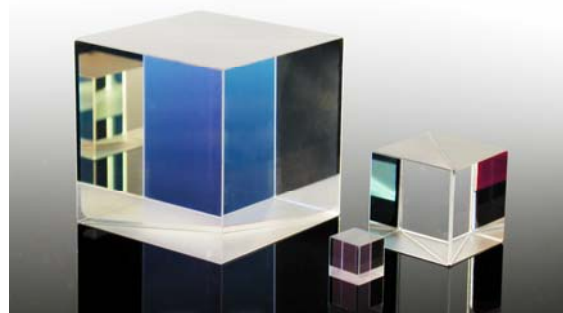
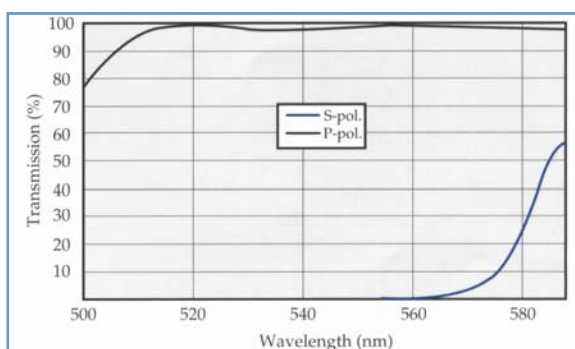


Laser Polarizing Cube Beamsplitters



These thin film stacks, deposited on the internal surface of a cube beamsplitter are effective polarizers for laser applications. The coatings are designed to provide almost total reflection of the s-component and a very high transmission of the p-component. They are narrow-band devices operat-

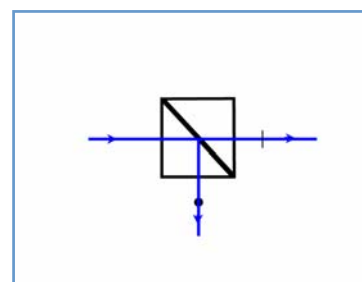


ing best at the laser wavelength and a narrow region around it. A useful extinction ratio 1000:1 is obtained using BK7 glass prisms, cemented together. This form is suitable for laser of fluence up to 1J/cm² (10ns).

For use with high power lasers, either BK7 or UV Fused Silica prisms are optically contacted. This reduces the extinction ratio to 200:1 but increases

the laser damage threshold to 10J/cm² (10ns).

These beamsplitters are usually supplied as 5, 10, 15 or 20 mm cubes but other sizes can be supplied on request.



Most common laser wavelengths are available.

For broadband applications see our range of broadband polarizing cube beamsplitters.

Typical Specifications

Material:	BK7 or UVFS
Surface flatness:	$\lambda/4$ @ 633nm
Surface quality:	20-10
Beam deviation:	3 arcmin
Dimensions:	+/- 0.25 mm
AR coating:	<0.25% per face
Extinction ratio - high:	1000:1
- low:	200:1
Transmission of p-pol:	> 95%
Reflection of s-pol:	>99.8%
Clear aperture:	>85%
Laser Damage Threshold:	1J/cm ² , 10ns
or:	10J/cm ² , 10ns

To request a quote or to order, please specify:

Quantity— Power (Hi or Lo) — Cube Side — Laser Wavelength

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