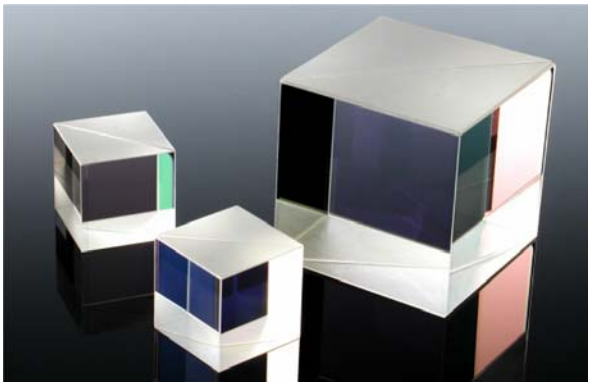
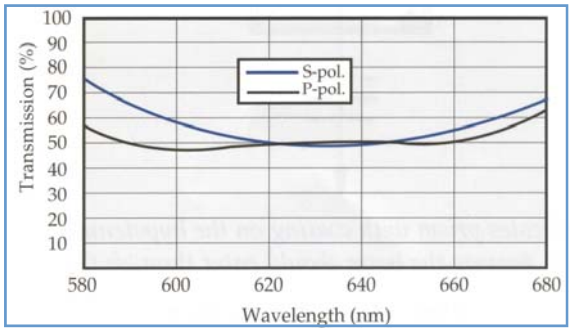
Non-polarizing Cube Beamsplitters

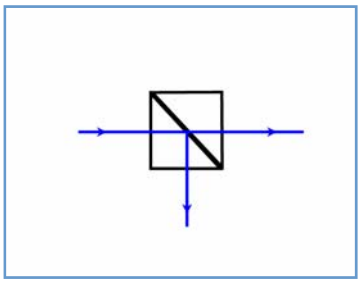


When using lasers it is often important to preserve the polarization state of light passing through an optical system. These non-polarizing cube beamsplitters are coated so that the s- and p- states of polarization are equally transmitted and reflected at the wavelength of interest. Such coatings only work for one wavelength. Nearly all visible and



near infra-red laser wavelengths can be accommodated. Due to the cement layer, power levels are restricted to low power applications. The difference between s– and p– polarization will be within 5%. As well as 50:50 split these cubes can be supplied for other split ratios such as 33:67.

External cube faces are anti-reflection coated for the laser wavelength. Cubes are often easier to use than plate reflectors and they provide protection for the coating, which is internal to the cube.



Typical Specifications	
Substrate Material:	BK7A
Surface flatness:	λ/8 @ 633 nm
Surface quality:	20/10
Beam deviation:	< 3 arcmin
Dimensions:	+0.0 / -0.2 mm
|s-p|:	< 5%
T & R:	50/50 +/-5%
AR coating:	R< 0.25% per face
Clear aperture:	> 85% of side
Damage Threshold:	> 1J/cm2, 10 ns

Here are some typical wavelengths offered:

413, 442, 488, 515, 527, 532, 633, 670, 680, 694, 780, 830, 905, 1047, 1053, 1064, 1310, 1319, 1540, 1550 nm.

Standard cube sizes are 3, 5, 6.35, 10, 12.7, 20, 25.4, 38.1 and 50.8 mm but other sizes can be supplied on request.

To request a quote or to order, please specify:

Quantity — Size — Laser Wavelength — Split Ratio

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