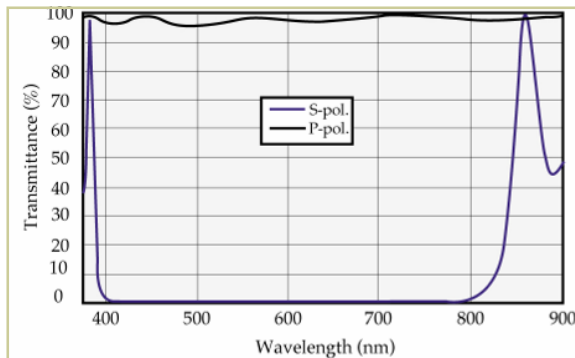


# Broadband Polarizing Cube Beamsplitters



Thin film stacks, deposited on the internal surface of a cube beamsplitter can produce effective polarizers. The coatings are designed to provide almost total reflection of the s-component and a very high transmission of the p-component. They operate over a broad spectral bandwidth. A useful extinc-



tion ratio 500:1 can be obtained using high index SF2 glass. This extinction ratio covers a bandwidth of either 440-680 nm, 650-1000 nm, 900-1400 nm or 1200-1600 nm, centred on 550, 800, 1000 and 1400 nm respectively.

These beamsplitters are usually supplied as 10 or 20 mm cubes but inch and other sizes can be supplied on request.

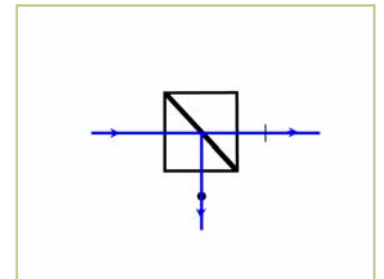
A lower cost form of polarizing beamsplitter can be

supplied for

the visible bandwidth using BK7 glass a substrate.

This version provides a lower, but still useful, extinction ratio of about 200:1.

For laser applications see our laser polarizing cube beamsplitters.



## Typical Specifications

Material:	SF2
Surface flatness:	$\lambda/4$ @ 633nm
Surface quality:	20-10
Beam deviation:	3 arcmin
Dimensions:	+0.0 / -0.2 mm
AR coating:	<0.5% per face
Extinction ratio - high:	500:1
Transmission of p-pol:	> 90%
Reflection of s-pol:	>99.8%
Clear aperture:	>85%
Laser Damage Threshold:	1J/cm <sup>2</sup> , 10ns

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

Quantity— Extinction (Hi or Lo) — Cube Side — Centre Wavelength (550, 800, 1000, 1400)

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