

These beamsplitters are suited to a wide variety of general, high performance beamsplitting applications. The sizes listed are standard and we keep most configurations and wavelength regions in stock at all times for immediate delivery. If you need even faster service, ask about our next-day delivery option.

## Broadband Cube Beamsplitters

- Four wide wavelength regions for complete coverage of visible and near-IR
- Cube faces AR coated to prevent ghosts
- Standard cubes from 5 to 30mm
- All coatings are multilayer dielectric
- 5mm beamsplitter cubes available for fiber optic applications



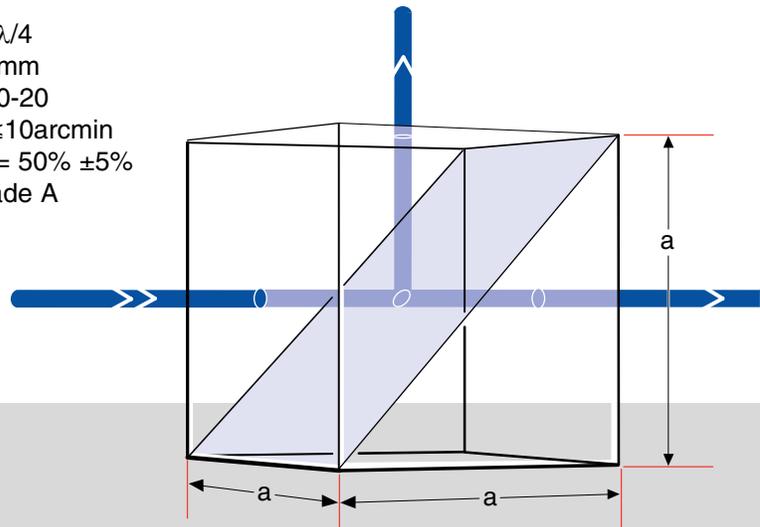
These superior broadband beamsplitters use multilayer dielectric films to produce approximately equal reflectance and transmittance over a broad range of wavelengths. Three different wavelength ranges are offered covering the visible and near infra-red spectrum, as shown on the opposite page.

The beamsplitting film is deposited on the hypotenuse face of a precision BK7 prism whose faces are  $\lambda/4$  and the prism is cemented to an identical prism to form a cube which is parallel sided within 5arcmin. The four outer faces are all Anti-Reflection (AR) coated.

Four sizes are offered including a very small 5mm cube which is ideal for fiber optic applications and other uses in which small configurations are required. Standard sizes are 5,10,15 and 20mm. Larger sizes are available on request.

## Specifications & Tolerances

Surface flatness:  $\lambda/4$   
 Dimensions:  $\pm 0.2\text{mm}$   
 Surface quality: 40-20  
 Beam deviation:  $\leq 10\text{arcmin}$   
 Reflectance:  $R_{av} = 50\% \pm 5\%$   
 Material: BK7, grade A



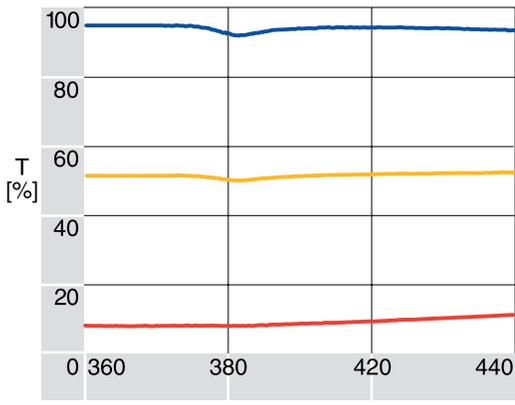
CUBE BEAMSPLITTER

ORDERING  
&  
TECHNICAL SUPPORT  
(949) 851-5881  
FAX (949) 851-5058  
E-MAIL  
sales@optosigma.com  
WEB  
www.optosigma.com

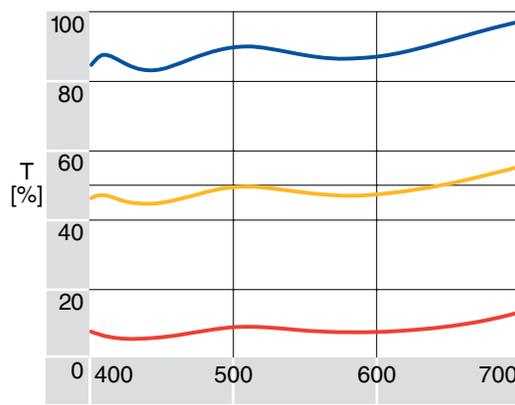
- Spherical Lenses
- Cylindrical Lenses
- Lens Kits
- Achromatic Doublets
- Multi-Element
- Micro Optics
- Mirrors
- Prisms
- Substrates & Windows

**Beamsplitters**

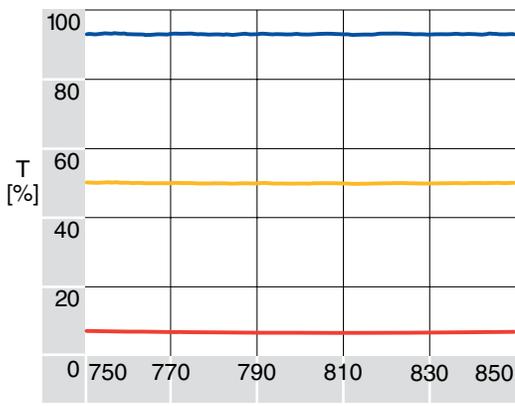
- Polarizers
- Filter & Apertures



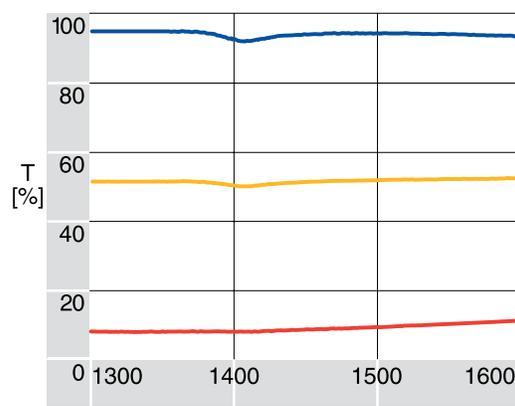
BROADBAND BEAMSPLITTER TRANSMITTANCE 390-410nm  
 P-POL ———  
 AVG-POL ———  
 S-POL ———



BROADBAND BEAMSPLITTER TRANSMITTANCE 400-700 nm  
 P-POL ———  
 AVG-POL ———  
 S-POL ———



BROADBAND BEAMSPLITTER TRANSMITTANCE 750-850 nm  
 P-POL ———  
 AVG-POL ———  
 S-POL ———



BROADBAND BEAMSPLITTER TRANSMITTANCE 1300-1550nm  
 P-POL ———  
 AVG-POL ———  
 S-POL ———

If you don't see exactly the beamsplitter that you need, please ask. Larger sizes, different split ratios and other configurations are available at competitive prices. OEM requirements are welcomed.



Our beamsplitter cube assembly takes place in a clean room environment to ensure high quality.

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**Beamsplitters**

Polarizers

Filter &amp; Apertures

**Broadband Cube Beamsplitters**

Wavelength Range (nm)	Cube Side, a (mm)	Material	Surface Flatness	Price	PART NUMBER
390-410	10.0	BK7	$\lambda/4$		039-0290
390-410	15.0	BK7	$\lambda/4$		039-0295
390-410	20.0	BK7	$\lambda/4$		039-0300
390-410	25.0	BK7	$\lambda/4$		039-0305
390-410	30.0	BK7	$\lambda/4$		039-0310
400-700	5.0	BK7	$\lambda/4$		039-0320
400-700	7.0	BK7	$\lambda/4$		039-0325
400-700	10.0	BK7	$\lambda/4$		039-0330
400-700	15.0	BK7	$\lambda/4$		039-0340
400-700	20.0	BK7	$\lambda/4$		039-0350
400-700	25.0	BK7	$\lambda/4$		039-0360
400-700	30.0	BK7	$\lambda/4$		039-0370
400-700	40.0	BK7	$\lambda/4$		039-0375
400-700	50.0	BK7	$\lambda/4$		039-0380
750-850	5.0	BK7	$\lambda/4$		039-0490
750-850	7.0	BK7	$\lambda/4$		039-0495
750-850	10.0	BK7	$\lambda/4$		039-0550
750-850	15.0	BK7	$\lambda/4$		039-0560
750-850	20.0	BK7	$\lambda/4$		039-0570
750-850	25.0	BK7	$\lambda/4$		039-0580
750-850	30.0	BK7	$\lambda/4$		039-0590
1300-1550	10.0	BK7	$\lambda/4$		039-0670
1300-1550	20.0	BK7	$\lambda/4$		039-0690



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