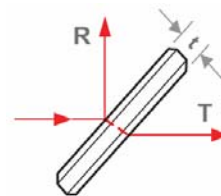


Beamsplitter plates can be used with high power laser. When using beamsplitter plates, it is important to bear in mind that the two partial beams travel different optical paths. And the optical paths depend on the incident angle and the thickness of plates.



Narrow Band Beamsplitter Plate

Specifications

Material	BK7 Grade A Optical Glass
Dimension Tolerance	±0.2mm
Parallelism	<1 arc minute
Clear Aperture	>80%
Flatness	$\lambda/4$ per 25mm @ 632.8nm
Surface Quality	60-40 Scratch and Dig
T/R	50/50±5%, for random polarization $T = (T_s + T_p)/2$, $R = (R_s + R_p)/2$
Coating	45 degree incident angle S1: Partial reflectance at single wavelength S2: AR-coating
Standard Wavelength	442, 473, 488, 532, 632.8, 650,780, 808, 850, 980, 1047, 1053, 1064, 1310, 1319, 1342 1550nm

Standard Products

Size (mm)	Part No.
12.7 × 12.7 × 3.0	BPS2501
25.4 × 25.4 × 3.0	BPS2502
50.8 × 50.8 × 3.0	BPS2503
Φ25.4 × 3.0	BPS2504

Broadband Beamsplitter Plate

Specifications

Material	BK7 Grade A Optical Glass
Dimension Tolerance	±0.2mm
Parallelism	<1 arc minute
Clear Aperture	>80%
Flatness	$\lambda/4$ per 25mm @ 632.8nm
Surface Quality	60-40 Scratch and Dig
T/R	50/50±5%, for random polarization $T = (T_s + T_p)/2$, $R = (R_s + R_p)/2$
Coating	45 degree incident angle S1: Broadband partial reflectance S2: Broadband AR-coating
Broadband Wavelength	450-650, 650-900, 900-1200, 1200-1550nm

Standard Products

Size (mm)	450-650 (nm) Part No.	650-900 (nm) Part No.	900-1200 (nm) Part No.	1200-1550 (nm) Part No.
12.7 × 12.7 × 3.0	BPS2001	BPS2101	BPS2201	BPS2301
25.4 × 25.4 × 3.0	BPS2002	BPS2102	BPS2202	BPS2302
50.8 × 50.8 × 3.0	BPS2003	BPS2103	BPS2203	BPS2303
Φ25.4 × 3.0	BPS2004	BPS2104	BPS2204	BPS2304

Note

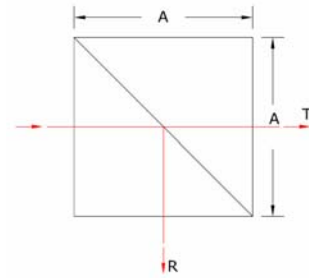
- Other products are also available upon request.

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Beamsplitter Cube is recommended for use with collimated or nearly collimated light. Convergent or divergent beams will contribute unwanted spherical aberration to an optical system.

Key Features

- Identical path lengths for both the reflected and the transmitted beams
- The transmitted beam is neither displaced nor deflected



Narrow Band Beamsplitter Cube

Specifications

Material	BK7 Grade A Optical Glass
Dimension Tolerance	±0.2mm
Parallelism	<1 arc minute
Clear Aperture	>80%
Flatness	$\lambda/4$ per 25mm @ 632.8nm
Surface Quality	60-40 Scratch and Dig
T/R	50/50±5%, for random polarization $T = (T_s + T_p)/2$, $R = (R_s + R_p)/2$
Coating	Partial reflectance at single wavelength Coating on hypotenuse face AR coating on all entrances
Standard Wavelength	442, 488, 532, 632.8, 650, 808, 850, 980, 1064, 1310, 1550 nm

Standard Products

Size (mm)	Part No.
10.0 × 10.0 × 10.0	BSP1501
12.7 × 12.7 × 12.7	BSP1502
15 × 15 × 15	BSP1503
20 × 20 × 20	BSP1501

Broadband Beamsplitter Cube

Specifications

Material	BK7 Grade A Optical Glass
Dimension Tolerance	±0.2mm
Parallelism	<1 arc minute
Clear Aperture	>80%
Flatness	$\lambda/4$ per 25mm @ 632.8nm
Surface Quality	60-40 Scratch and Dig
T/R	50/50±5%, for random polarization $T = (T_s + T_p)/2$, $R = (R_s + R_p)/2$
Coating	Partial reflectance at broadband wavelength Coating on hypotenuse face AR coating on all entrances
Broadband Wavelength	450-650, 650-900, 900-1200, 1200-1550nm

Standard Products

Size (mm)	450-650 (nm) Part No.	650-900 (nm) Part No.	900-1200 (nm) Part No.	1200-1550 (nm) Part No.
10.0 × 10.0 × 10.0	BSP1001	BSP1101	BSP1201	BSP1301
12.7 × 12.7 × 12.7	BSP1002	BSP1102	BSP1202	BSP1302
15 × 15 × 15	BSP1003	BSP1103	BSP1203	BSP1303
20 × 20 × 20	BSP1004	BSP1104	BSP1204	BSP1304
25.4 × 25.4 × 25.4	BSP1005	BSP1105	BSP1205	BSP1305

Note

- Other products are also available upon request.

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