

Beamsplitter Cube

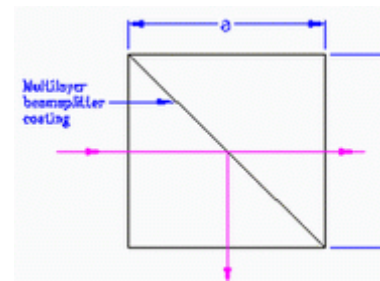
Beamsplitters cube consist of matched pairs of identical right angle prisms, with their hypotenuse faces cemented together. They have several advantages over plate beamsplitters and are widely used for a variety of reasons. This type of beamsplitter deforms much less when subjected to mechanical stress than does a plate beamsplitter .



Narrow Band Beamsplitter Cube

Specifications:

- Material: **BK7 Grade A Optical Glass**
- Dimension Tolerance: $\pm 0.2\text{mm}$
- Surface Quality: 60/40
- Surface Accuracy: $\lambda/4$ per 25mm @633nm
- T/R: 50/50 $\pm 5\%$, for random polarization $T=(T_s+T_p)/2$, $R=(R_s+R_p)/2$
- Beam Deviation: <3 arc minutes
- Coating: Single wavelength partial reflectance on hypotenuse face
"V" AR coating on all input and output face



Size	Wavelength	Part No.	Size	Wavelength	Part No.
10x10x10	488	BP-CB1001	10x10x10	780	BP-CB1025
12.7x12.7x12.7	488	BP-CB1002	12.7x12.7x12.7	780	BP-CB1026
15x15x15	488	BP-CB1003	15x15x15	780	BP-CB1027
20x20x20	488	BP-CB1004	20x20x20	780	BP-CB1028
10x10x10	514.5	BP-CB1005	10x10x10	850	BP-CB1029
12.7x12.7x12.7	514.5	BP-CB1006	12.7x12.7x12.7	850	BP-CB1030
15x15x15	514.5	BP-CB1007	15x15x15	850	BP-CB1031
20x20x20	514.5	BP-CB1008	20x20x20	850	BP-CB1032
10x10x10	532	BP-CB1009	10x10x10	980	BP-CB1033
12.7x12.7x12.7	532	BP-CB1010	12.7x12.7x12.7	980	BP-CB1034
15x15x15	532	BP-CB1011	15x15x15	980	BP-CB1035
20x20x20	532	BP-CB1012	20x20x20	980	BP-CB1036
10x10x10	632.8	BP-CB1013	10x10x10	1064	BP-CB1037
12.7x12.7x12.7	632.8	BP-CB1014	12.7x12.7x12.7	1064	BP-CB1038
15x15x15	632.8	BP-CB1015	15x15x15	1064	BP-CB1039
20x20x20	632.8	BP-CB1016	20x20x20	1064	BP-CB1040
10x10x10	635	BP-CB1017	10x10x10	1300	BP-CB1041

12.7x12.7x12.7	635	BP-CB1018	12.7x12.7x12.7	1300	BP-CB1042
15x15x15	635	BP-CB1019	15x15x15	1300	BP-CB1043
20x20x20	635	BP-CB1020	20x20x20	1300	BP-CB1044
10x10x10	670	BP-CB1021	10x10x10	1550	BP-CB1045
12.7x12.7x12.7	670	BP-CB1022	12.7x12.7x12.7	1550	BP-CB1046
15x15x15	670	BP-CB1023	15x15x15	1550	BP-CB1047
20x20x20	670	BP-CB1024	20x20x20	1550	BP-CB1048

Broadband Beamsplitter Cube

Specifications:

- Material: **BK7 Grade A Optical Glass**
- Dimension Tolerance: $\pm 0.2\text{mm}$
- Surface Quality: 60/40
- Surface Accuracy: $\lambda/4$ per 25mm @633nm
- T/R: 50/50 $\pm 5\%$, for random polarization $T=(T_s+T_p)/2$, $R=(R_s+R_p)/2$
- Beam Deviation: <3 arc minutes
- Coating: Single wavelength partial reflectance on hypotenuse face
BBAR coating on all input and output face

Size	Wavelength	Part No.
10x10x10	450-650	BP-CBB1001
12.7x12.7x12.7	450-650	BP-CBB1002
15x15x15	450-650	BP-CBB1003
20x20x20	450-650	BP-CBB1004
10x10x10	650-900	BP-CBB1005
12.7x12.7x12.7	650-900	BP-CBB1006
15x15x15	650-900	BP-CBB1007
20x20x20	650-900	BP-CBB1008
10x10x10	900-1200	BP-CBB1009
12.7x12.7x12.7	900-1200	BP-CBB1010
15x15x15	900-1200	BP-CBB1011
20x20x20	900-1200	BP-CBB1012
10x10x10	1200-1500	BP-CBB1013
12.7x12.7x12.7	1200-1500	BP-CBB1014
15x15x15	1200-1500	BP-CBB1015
20x20x20	1200-1500	BP-CBB1016