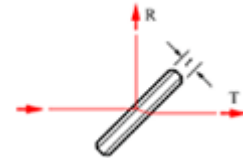




Beamsplitter

Beam Splitter Plates

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.



Dimension	Narrow		Broadband	
	Part No.	Unit price	Part No.	Unite Price
10.0x10.0x2.0	FBS101	US\$35	FBS111	US\$38
12.7x12.7x2.0	FBS102	US\$36	FBS112	US\$39
20.0x20.0x2.0	FBS103	US\$45	FBS113	US\$48
25.4x25.4x2.0	FBS104	US\$50	FBS114	US\$52
φ 25.4X2.0	FBS104	US\$50	FBS114	US\$52

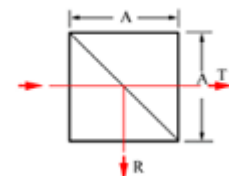
Specifications:

Material:	Optical grade BK7
Dimension Tolerance:	+0.0,-0.2mm
Wavefront Distortion:	$<\lambda/4@633\text{nm}$
Parallelism	$<1'$
Surface Quality:	40/20 Scratch and Dig
Coating:	S1: Single wavelength partial reflectance S2: "V" AR-coatings
T/R:	50/50±5%, for natrual light $T=(T_s+T_p)/2$, $R=(R_s+R_p)/2$
Single Wavelength:	488, 532, 632.8, 650, 808, 850, 980, 1064, 1310, 1550 nm
Broaden Wavelength:	450-650, 650-900, 900-1200, 1200-1550, 1500-1610 nm

Beam Splitter Cube

Compared with beamsplitter plate, beamsplitter cube has the following advantages:

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





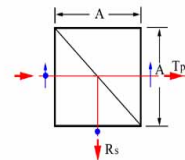
Dimension	Narrow		Broadband	
	Part No.	Unit price	Part No.	Unite Price
3.2x3.2x3.2	CBS101	US\$59	CBS111	US\$62
5.0x5.0x5.0	CBS102	US\$64	CBS112	US\$67
10.0x10.0x10.0	CBS103	US\$59	CBS113	US\$62
12.7x12.7x12.7	CBS104	US\$64	CBS114	US\$67
20.0x20.0x20.0	CBS105	US\$75	CBS115	US\$80
25.4x25.4x25.4	CBS106	US\$82	CBS116	US\$87

Specifications:

Material:	Optical grade BK7
Dimension Tolerance:	+0.0,-0.2mm
Wavefront Distortion:	$<\lambda/6@633\text{nm}$
Beam Deviation:	$<2'$
Surface Quality:	40/20 Scratch and Dig
T/R:	50/50 \pm 5%, for natrual light $T=(T_s+T_p)/2$, $R=(R_s+R_p)/2$
Standard Wavelength:	488, 532, 632.8, 650, 808, 850, 980, 1064, 1310, 1550 nm
Broaden Wavelength:	450-650, 650-900, 900-1200, 1200-1550, 1500-1610 nm

Polarized Beam Splitter Cube

The prisms can be used as polarizers, beamsplitters or beam combiners. The output beam which is parallel to input beam is called p-polarized beam while the orthogonal output beam is defined as s-polarized beam.



Dimension	Narrow		Broadband	
	Part No.	Unit price	Part No.	Unite Price
3.2x3.2x3.2	PBS101	US\$73	PBS111	US\$75
5.0x5.0x5.0	PBS102	US\$75	PBS112	US\$78
10.0x10.0x10.0	PBS103	US\$78	PBS113	US\$82
12.7x12.7x12.7	PBS104	US\$82	PBS114	US\$85
15.0x15.0x15.0	PBS105	US\$92	PBS115	US\$95
25.4x25.4x25.4	PBS106	US\$122	PBS116	US\$125

Specifications:

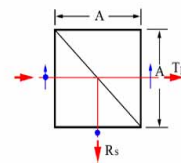
Material:	SF1, SF2, SF6, SF57HHT, PBH56
Dimension Tolerance:	+0.2,-0.2mm
Wavefront Distortion:	$<\lambda/6@633\text{nm}$
Beam Deviation:	$<2'$
Surface Quality:	60/40 Scratch and Dig



Extinction Ratio:	>100:1
Principal Transmittance:	>95% and $T_s < 1\%$
Principal Reflectance:	$R_s > 99\%$ and $R_p < 5\%$
Standard Wavelength:	488, 532, 632.8, 650, 808, 850, 980, 1064, 1310, 1550 nm
Broaden Wavelength:	450-650, 650-900, 900-1200, 1200-1550, 1500-1610 nm

Nonpolarized Beam Splitter Cube

Non-polarizing Cube Beamsplitter consists of a pair of precision high tolerance right angle prisms cemented together with a metallic-dielectric coating on the hypotenuse of one of the prisms. The low polarization dependence of the metallic-dielectric coating allows the transmission and reflection for S- and P- polarization states to be within 5% of each other. This means that they will not change the state of polarization of the incident beam.



Dimension	Narrow		Broadband	
	Part No.	Unit price	Part No.	Unit Price
3.2x3.2x3.2	NBS101	US\$73	NBS101	US\$75
5.0x5.0x5.0	NBS102	US\$75	NBS102	US\$78
10.0x10.0x10.0	NBS103	US\$78	NBS103	US\$82
12.7x12.7x12.7	NBS104	US\$82	NBS104	US\$85
15.0x15.0x15.0	NBS105	US\$92	NBS105	US\$95

Specifications:

Material:	Optical grade BK7
Dimension Tolerance:	+0.2,-0.2mm
Wavefront Distortion:	$< \lambda/6 @ 633\text{nm}$
Beam Deviation:	$< 2'$
Surface Quality:	60/40 Scratch and Dig
Transmittance:	45%±5%
Absorption:	<10%
Polarization:	6%
Standard Wavelength:	488, 532, 632.8, 650, 808, 850, 980, 1064, 1310, 1550 nm
Broaden Wavelength:	450-650, 650-900, 900-1200, 1200-1550, 1500-1610 nm