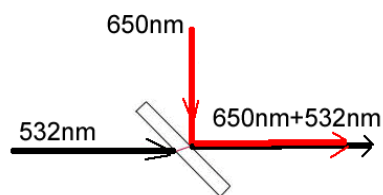


Beam Combiner

Beam Combiners are ideal for applications where diode lasers are being used for system alignment. Designed for used at 45 degree, they transmit the long wavelength beam and align it with the 90 degree reflected diode beam.



Beam Combiner for CO₂ Laser (wavelength 10.6um)

Average transmission > 99%@10.6um, Average reflection > 85%@650nm

Specifications

Diameter Tolerance	+0/-0.13mm
Thickness	±0.25mm
Side1	T>99%@10.6um,45AOI
Side2	T>99%@10.6um R>85%@650nm,45AOI
Flatness	$\lambda/20$ @10.6um

Part No.	Material	Diameter (inch)	Thickness (mm)
BCZ-0.5-2	ZnSe	0.5	2
BCZ-1.0-3	ZnSe	1.0	3
BCZ-1.5-3	ZnSe	1.5	3
BCZ-2-5	ZnSe	2.0	5

Beam Combiner for Nd:YAG Laser (wavelength 1064nm)

Average transmission > 99%@1064nm, Average reflection > 85%@650nm

Specifications

Diameter Tolerance	+0/-0.13mm
Thickness	±0.25mm
Side1	T>99%@1064nm,45AOI
Side2	T>99%@1064nm,R>85%@650nm,45AOI
Flatness	$\lambda/2$ @1064nm per 25mm dia

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Part No.	Material	Diameter (inch)	Thickness (mm)
BCBK-0.5-2	BK7	0.5	2
BCBK-0.75-3	BK7	0.75	3
BCBK-1.0-3	BK7	1.0	3
BCBK-1.5-3	BK7	1.5	3

Beam Combiner for Green Laser(532nm)

Part No.	Material	Diameter (inch)	Thickness (mm)
BCBK-1-3-532T650R	BK7	1	3

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