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Broadband Beamsplitter Cube

Product Description:

A beam splitter is an optical device to split a light beam into two orthogonal beams. It is made form a pair of precision high tolerance right angle prisms which are glued together. The ratio is stated for unpolarized light. A beamsplitter cube, tailored for a specific wavelength, can ensure the appropriate performance.

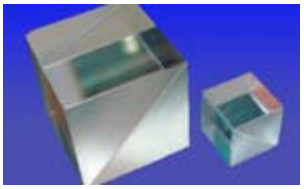

Figure 1: Broadband beamsplitter cubes

Specifications:

Material	BK7
Dimension Tolerance	±0.2mm
Flatness	$\lambda/4$ @ 632.8nm
Surface Quality	40~20
Clear Aperture	>90%
Beam Deviation	<3 arc minutes
T/R	50/50±5%, 30/70±5% or Custom splitting Ratio
Polarization Difference	<5%
Wavelength Options	900~1200nm 1200~1500nm
AR coating	Broadband AR coating on all input and output surfaces

Black Anodized Aluminum Mount Dimensions

The mount is an example for 12.7X12.7X12.7mm beamsplitter cube. Custom dimensions and shape are available upon request.

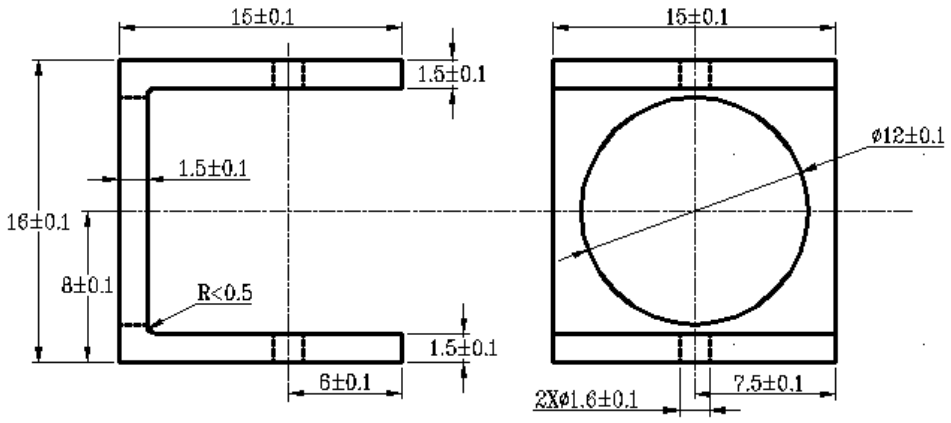

Figure 2: beamsplitter cube mount dimensions

Ordering Information:

P	B	B	S	X	X	X	X	X	X	X
				A		B	C		D	E

A	**Wavelength**	**01 = 450~650nm**
		02 = 650~900nm
		03 = 900~1200nm
		04 = 1200~1500nm
		00=Special
B	**Material**	**1=BK7**
		0=Special
C	**Dimensions**	**01=2.0mm(L)X2.0mm(W)X2.0mm(H)**
		Check Standard Size Table Below
		00=Custom Size
D	**Beam Splitting Ratio**	**1=50/50**
		2=30/70 (T/R)
		3=70/30 (T/R)
		0=Special
E	**Mount**	**1=Yes**
		0=No

Standard Size Table:

Dimension P/N	Length L (mm)	Width W (mm)	Height H (mm)
01	2.0	2.0	2.0
02	5.0	5.0	5.0
03	10.0	10.0	10.0
04	12.7	12.7	12.7

05	15.0	15.0	15.0
06	20.0	20.0	20.0