

## Broadband Beamsplitter Plate

### Product Description:

A beamsplitter plate has a partially transmitting coating on one surface and an antireflection coating on the second surface. When the angle of incidence (AOI) is 45 degrees, it separates a beam into two orthogonal beams. The ratio of the power between two beams is determined by the coating. It is stated for unpolarized light. A nonpolarizing plate beamsplitter, tailored for a specific wavelength, can ensure the appropriate performance.

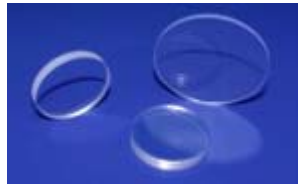
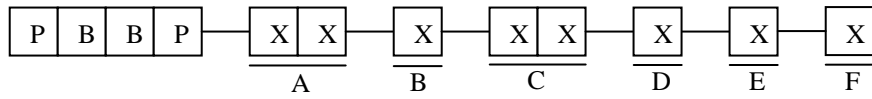


Figure 1: Beamsplitter plates

### Specifications:

Material	BK7
Dimension Tolerance	$\pm 0.1\text{mm}$
Flatness	$\lambda/4 @ 632.8\text{nm}$
Surface Quality	40~20
Clear Aperture	>90%
T/R	50/50 $\pm$ 5%, 30/70 $\pm$ 5% or Custom splitting Ratio
T	$(T_s + T_p)/2$
R	$(R_s + R_p)/2$
Polarization	<5%
Wavelength Options	450~650nm 650~900nm 900~1200nm 1200~1500nm
AR coating	Broadband AR coating on other surface

## Ordering Information:



<b>A</b>	<b>Wavelength</b>	<b>01 = 450~650nm</b>
		<b>02 = 650~900nm</b>
		<b>03 = 900~1200nm</b>
		<b>04 = 1200~1500nm</b>
		<b>00 = Special</b>
<b>B</b>	<b>Material</b>	<b>1 = BK7</b>
		<b>0 = Special</b>
<b>C</b>	<b>Dimensions</b>	<b>01 = 12.7mm(L)X12.7mm(W)X3mm(T)</b>
		<b>Check Standard Size Table Below</b>
		<b>00 = Custom Dimensions</b>
<b>D</b>	<b>Beam Splitting Ratio</b>	<b>1=50/50</b>
		<b>2=30/70 (T/R)</b>
		<b>3=70/30 (T/R)</b>
		<b>0=Special</b>
<b>E</b>	<b>Shape</b>	<b>1 = Square</b>
		<b>2 = Circular</b>
<b>F</b>	<b>Mount</b>	<b>1 = Yes</b>
		<b>0 = No</b>

## Standard Size Table:

Dimensions P/N	L X H X W (mm) or $\phi$ X t (mm)
01	12.7X12.7X3
02	25.4X25.4X3
03	$\Phi$ 25.4X3
04	50.8X50.8X3