

Narrow Band 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.

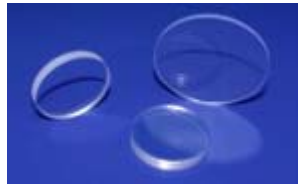
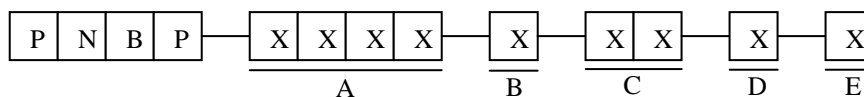


Figure 1: Beamsplitter plates

Specifications:

Material	BK7
Dimension Tolerance	$\pm 0.1\text{mm}$
Flatness	$\lambda / 4 @ 632.8\text{nm}$
Surface Quality	40~20
Clear Aperture	>90%
Beam Deviation	<3 arc minutes
T/R	50/50 $\pm 5\%$, 30/70 $\pm 5\%$ or Custom splitting Ration
T	$(T_s + T_p) / 2$
R	$(R_s + R_p) / 2$
Polarization	<5%
AR coating	AR coating on other surface

Ordering Information:



A	Wavelength	1550 = 1550nm
		0980 = 980nm
		XXXX = Your Application Wavelength
B	Material	1=BK7
		0=Special
C	Dimensions	01=12.7mm(L)X12.7mm(W)X3mm(T)
		Check Standard Size Table Below
		00=Custom Dimensions
D	Beam Splitting Ratio	1=50/50
		2=30/70 (T/R)
		3=70/30 (T/R)
		0=Special
E	Shape	1=Square
		2=Circular

Standard Size Table:

01	12.7X12.7X3mm
02	18.0X18.0X1.5mm
03	Φ 25.4X3mm
04	50.8X50.8X3mm

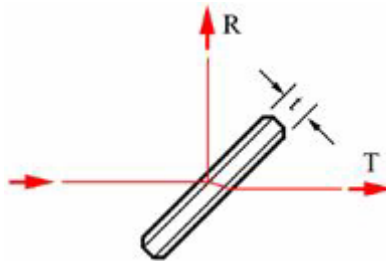


Figure 3: Schematic dimensions of a narrow band beamsplitter plate