

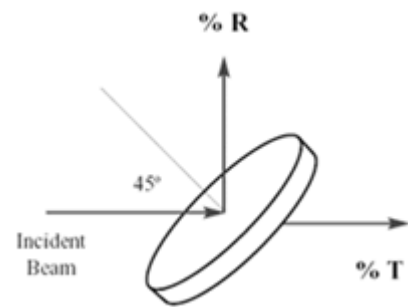
# BROADBAND PLATE BEAMSPLITTERS

Plate beamsplitters are available with nominal split ratios of 30/70, 50/50, and 70/30. These ratios assume that the incoming beam is randomly or circularly polarized with equal parts of s and p polarization.

If the beam is randomly polarized, the split beams will be linearly polarized (weakly). If the incoming beam is circularly polarized, the split beams will be elliptically polarized.

## Standard Specifications:

<b>Optical Material:</b>	BK7 grade A optical glass
<b>Diameter Tolerance:</b>	±0.2mm
<b>Surface Quality:</b>	60-40 scratch and dig
<b>Surface Flatness:</b>	lambda/4 at 632.8nm
<b>Beam Deviation:</b>	<10 arc minutes
<b>Nominal T/R Ratio:</b>	50/50 ±5% for average polarization
<b>Clear Aperture:</b>	>85%
<b>Bevel:</b>	<0.25mm X 45°
<b>Coating:</b>	
<b>1st Surface:</b>	All-dielectric partial reflection coating for 45°, surface marked with a dot.
<b>2nd Surface:</b>	Antireflection coated for <1.0% reflectance for 45°
<b>Available Wavelength:</b>	Visible and Near Infrared.



## Standard Broadband Plate Beamsplitters

Dimension(mm)	Product Number			
	450-650nm	650-900nm	900-1200nm	1200-1550nm
D10.0	UQT-VPB0101	UQT-VPB0201	UQT-VPB0301	UQT-VPB0401
D12.7	UQT-VPB0102	UQT-VPB0202	UQT-VPB0302	UQT-VPB0402
D15.0	UQT-VPB0103	UQT-VPB0203	UQT-VPB0303	UQT-VPB0403
D20.0	UQT-VPB0104	UQT-VPB0204	UQT-VPB0304	UQT-VPB0404
D25.4	UQT-VPB0105	UQT-VPB0205	UQT-VPB0305	UQT-VPB0405

Please Contact [ultiQuest](#) for other dimensions in prototype and production quantities.

## NOTES!

- ➔ The transmittance curve is a graph based on actual measurements and may vary from production lot to production lot.
- ➔ The surface flatness is the reflected wavefront distortion of the surface before coating.
- ➔ Plate-type nonpolarizing beam splitters are also provided upon request.
- ➔ Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.