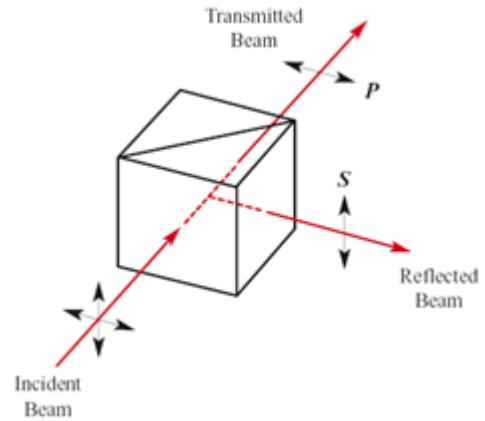


BROADBAND POLARIZING CUBE BEAMSPLITTERS

Polarizing cube beamsplitters separate the s- and p-polarized components of an incident beam into two highly polarized output beams separated by a 90-degree angle. A 50/50 split in laser energy is achieved for unpolarized incident light.

Standard Specifications:

Optical Material:	BK7 grade A optical glass
Diameter Tolerance:	±0.2mm
Surface Quality:	40-20 scratch and dig
Surface Flatness:	$\lambda/4$ at 632.8nm
Beam Deviation:	<10 arc minutes
Principal Transmittance:	$T_p > 95\%$ AND $T_s < 1\%$
Principal Reflectance:	$R_s > 99\%$ AND $R_p < 5\%$
Clear Aperture:	>85%
Bevel:	<0.25mm X 45°
Coating:	Broadband antireflection coating on entrance and exit faces.
Available Wavelength:	Visible and Near Infrared.



Standard Broadband Hybrid Cube Beamsplitters

Dimension(mm)	Product Number			
	450-650nm	650-900nm	900-1200nm	1200-1550nm
10.0x10.0x10.0	UQT-PBS0101	UQT-PBS0201	UQT-PBS0301	UQT-PBS0401
12.7x12.7x12.7	UQT-PBS0102	UQT-PBS0202	UQT-PBS0302	UQT-PBS0402
15.0x15.0x15.0	UQT-PBS0103	UQT-PBS0203	UQT-PBS0303	UQT-PBS0403
20.0x20.0x20.0	UQT-PBS0104	UQT-PBS0204	UQT-PBS0304	UQT-PBS0404
25.4x25.4x25.4	UQT-PBS0105	UQT-PBS0205	UQT-PBS0305	UQT-PBS0405

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

NOTES!

- ➔ The hybrid coating is a composite coating consisting of a dielectric multilayer film and a metallic film, which results in less light absorption than chrome and less dependency on light polarization than dielectric multilayer films.
- ➔ 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.