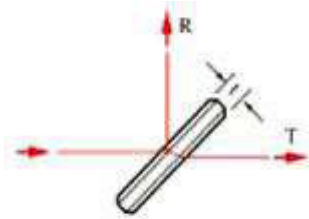


BK7 Beam Splitter

The common Beam Splitter is used to split laser beam. The performance of Beam splitters is mainly dependent on the coating specifications.



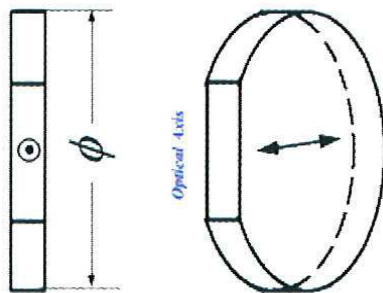
Specifications	
Diameter Tolerance	+0/-0.13mm
Thickness	±0.25mm
Surface Flatness	$\lambda/4@632.8\text{nm}$
Surface Quality	40/20 scratch and dig
AOI	45°

Part No.	Dia (mm)	Thk (mm)	Material	Side 1 Reflectivity (%R)	Polarization	Wavelength
BSBK-0.5-3-1064	12.7	3.0	BK7	50%	S-Pol	1064nm
BSBK-1-3-1064	25.4	3.0	BK7	50%	S-Pol	1064nm
BSBK-2-3-1064	50.8	3.0	BK7	50%	S-Pol	1064nm

NOTE: Beam Splitter for other wavelength is available upon request

Waveplate

Zero-order waveplate is designed to give a retardance of zero full waves, plus the desired fraction. Zero order waveplate shows better performance than multiple order waveplates, it has broad bandwidth and a lower sensitivity to temperature and wavelength changes.



Specifications	
Material:	Quartz
Dimension Tolerance:	+0.0, -0.13 mm
Wavefront Distortion:	$<\lambda/8 @ 632.8 \text{ nm}$
Retardation Tolerance:	$<\lambda/500$ (typical)
Parallelism:	<3 arc second
Surface Quality:	20-10 scratch and dig
Clear aperture:	Central 90%
AR/AR Coating:	$R < 0.2\%$ at central wavelength

Part No.	Dia (mm)	Thk (mm)	Type	Wavelength
WP12.7-2-1064	12.7	1.0	Zero-Order Half	1064nm
WP25.4-2-1064	25.4	1.0	Zero-Order Half	1064nm
WP12.7-4-1064	12.7	1.0	Zero-Order Quarter	1064nm
WP25.4-4-1064	25.4	1.0	Zero-Order Quarter	1064nm

NOTE: Waveplate for 266nm, 355nm, 532nm, 632.8nm, 808nm, 980nm, 1550nm are available upon request.