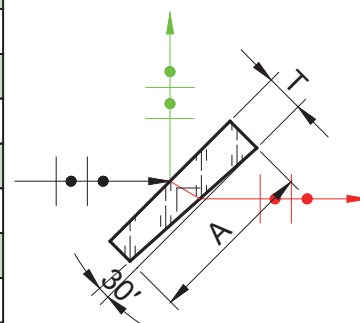




## Broadband Dielectric Beamsplitters

### Specifications

<b>Material:</b>	BK7 or UV fused silica
<b>Dimension Tolerance:</b>	+0/-0.13mm
<b>Thickness Tolerance:</b>	±0.38 mm
<b>Wedge:</b>	30±15 arc min
<b>Wavefront Distortion:</b>	$\lambda/10@632.8\text{nm}$ over the clear aperture
<b>Clear Aperture:</b>	>Central 80% of diameter
<b>S1 Beamsplitter Coating:</b>	$R_s=50\% \pm 5\%$ , $R_p \leq R_s @ 45^\circ$ incidence
<b>S2 AR Coating:</b>	Multilayer coating: $R_{\text{avg}} < 0.75\% @ 45^\circ$ incidence
<b>Chamfers:</b>	25.4mm:0.25-0.76 mm face width x $45^\circ \pm 15^\circ$ 50.8 mm:0.38-1.14 mm face width x $45^\circ \pm 15^\circ$
<b>Damage Threshold:</b>	500W/cm <sup>2</sup> , 1J/cm <sup>2</sup> with 10 nsec pulses



NOTE: Mark beamsplitter surface with a arrow on the side

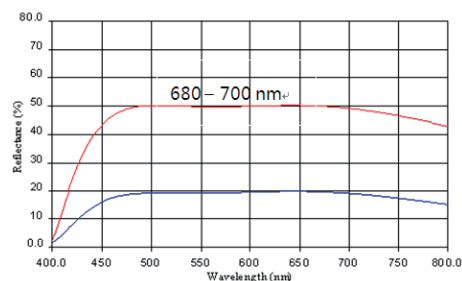
### Order Information

BBS — 127 — 061 — W400-700 — BK7

Product Code Dimension "A"= 12.7mm Thickness=6.1mm Wavelength "λ"=400-700nm Material

### Broadband Dielectric Beamsplitters

Part number	Diameter A (mm)	Thickness T (mm)	Material
BBS-127-031-λ-BK7	12.7	3.1	BK7
BBS-254-061-λ-BK7	25.4	6.1	BK7
BBS-50.8-094-λ-BK7	50.8	9.4	BK7
BBS-127-031-λ-UVFS	12.7	3.1	UVFS
BBS-254-061-λ-UVFS	25.4	6.1	UVFS
BBS-508-094-λ-UVFS	50.8	9.4	UVFS



### Standard Wavelength Range(λ)

480-700 nm	700-950 nm	1290-1580 nm
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