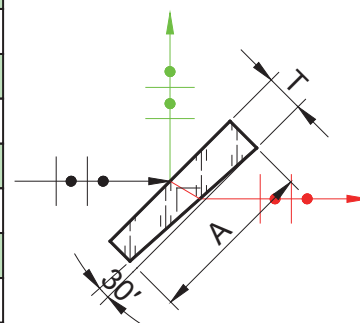




Broadband Dielectric Beamsplitters

Specifications

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



NOTE: Mark beamsplitter surface with a arrow on the side

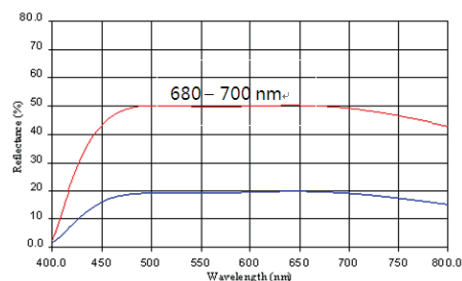
Order Information

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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