

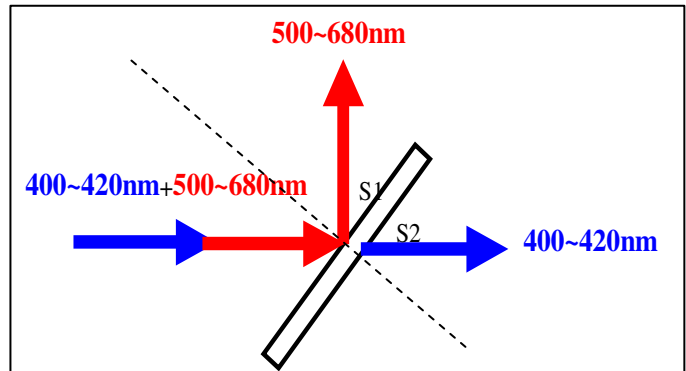
# 45° Broadband Beam Splitter Plate

(HT@400~420nm/HR@500~680nm)

PHOTONIK<sup>hv</sup>

## Highlights:

- UV Fused Silica Substrate
- $\phi$ 25.4 mm Std Diameter
- T=1 mm Thin Plate



## COATING SPECIFICATIONS

**Surface I**(S1-marked): Split coating; Non-Polarization Splitter (NPBS) Coating

R1>99% @500~680nm **45° AOI**;  
T1>99% @400~420nm; **45° AOI**;

**Surface II**(S2-marked): AR coating, AR @400~420nm; R<0.2% **45° AOI**;

## GENERAL SPECIFICATIONS

Substrate Material	Fused silica, UV grade
Surface Figure	$\lambda/10$ typical at 633nm
Surface Quality	20-10 laser quality
Dimension	Diameter $\phi$ 1"; Thickness T=1 mm
Diameter Tolerance	+ 0.00mm, - 0.10mm
Thickness Tolerance	$\pm$ 0.05mm
Wedge(Parallelism)	$\leq$ 1 minute
Edge Chamfer	0.2mm at 45° typical
Coating Technology	Electron beam multi-layer dielectric coating
Adhesion and Durability	Per MIL-C-675C. Insoluble in lab solvents.
Clear Aperture	Exceeds central 85% of diameter
Damage Threshold	20J/cm <sup>2</sup> , 8nsec pulse at 1064nm
Coated Surface Figure	$\lambda/10$ at 633nm over 85% of diameter available

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