

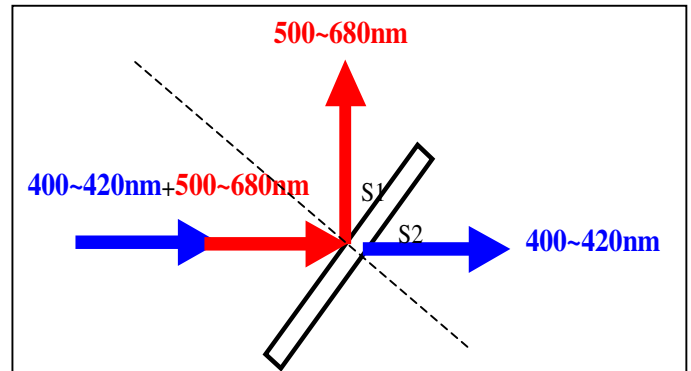
45° Broadband Beam splitter Plate

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

PHOTONIK^{hv}

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	± 0.05 mm
Wedge(Parallelism)	≤ 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 ² , 8nsec pulse at 1064nm
Coated Surface Figure	$\lambda/10$ at 633nm over 85% of diameter available

Contact Information:

PHOTONIK (SINGAPORE) PTE LTD

German Center, #04-102
25 International Business Park
Singapore 609916
Tel: (65) 6562-7838, 6562-7976 Fax: (65) 6562-7839
Email: sales@photonik.com.sg Web: www.photonik.com.sg

Local Representative:

