

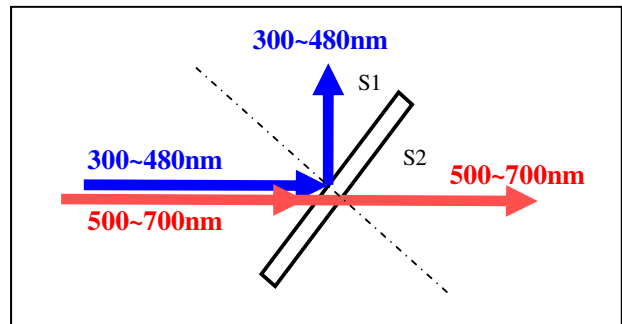
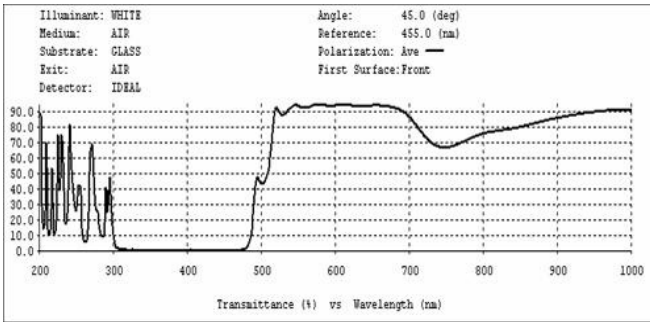


45° Broadband Dichroic Beam Splitter Plate

(HR@300~480nm/HT@510~700nm)

Highlights:

- UV fused silica substrate; Single plate type
- ϕ 12.70mm, ϕ 15mm, ϕ 20mm, ϕ 25.4mm, ϕ 30mm, ϕ 38.1mm, ϕ 50.8 std in diameter; Mounted or Un-mounted upon request.
- T=1 mm thin plate



COATING SPECIFICATIONS

Surface I (S1-marked): Split coating; 45° Non-Polarization Splitter(NPBS) Coating

R1>99% @300~480nm 45° AOI;

T1>99% @510~700nm; 45° AOI;

Surface II (S2-marked): Un-coated(std);

(Note : total transmission @ 510~700nm can be T > 97% average if broadband AR coated on S2, upon request).

GENERAL SPECIFICATIONS

Substrate Material	Fused silica, UV grade
Surface Figure	$\lambda/10$ typical at 633nm
Surface Quality	20-10 laser quality
Std Dimension	Diameter ϕ 0.5"; ϕ 15mm, ϕ 20mm; ϕ 1"; ϕ 30mm; ϕ 1.5"; ϕ 2"; Thickness T=1mm
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	1J/cm ² , 8nsec pulse at 1064nm
Coated Surface Figure	$\lambda/10$ at 633nm over 85% of diameter available

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