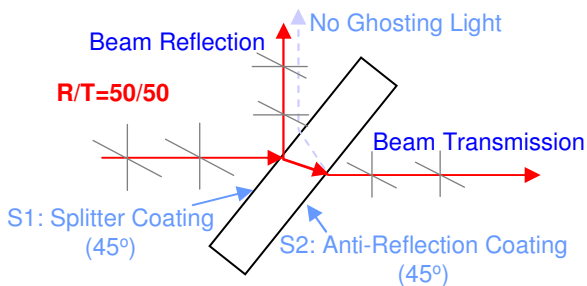
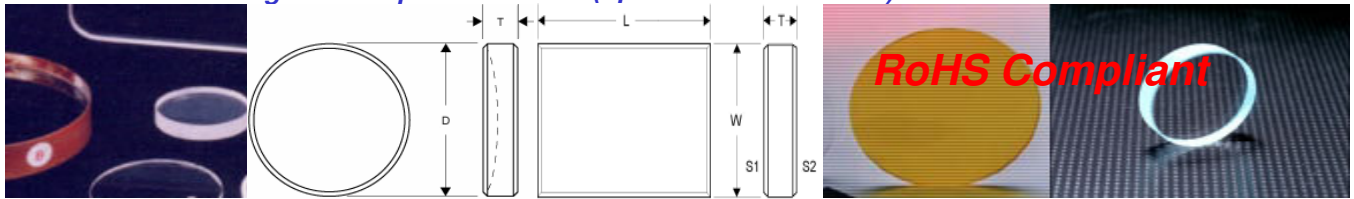


45° BEAM SPLITTER PLATE – Non-Pol Series

- Plate Design;
- Full Dielectric, Broadband Coating
- 50: 50 UNP Laser Splitting
- BBAR Coating on Back Surface
- CW or Low Power Pulsed Laser Applications
- Circular or Rectangular or Square Available (up to 200mm x 200mm)



Beamsplitter plates can be used to either split or combine a laser beam with broad bandwidth or multiple beams in the same optical path within a specified wavelength range. A durable all-dielectric multilayer coating design is used for neutral splitting of unpolarized UV, visible or near-infrared light at a 90° angle.

The back surface is antireflection coated to reduce secondary reflections and ghost images.

GENERAL SPECIFICATIONS:

Substrate Material (shown as "M" in P/N):
Surface Quality:
Wedge:
Clear Aperture:
Transmitted Wavefront
Dimension (mm) (shown as "D" in P/N):

M0: BK7 optical glass; **M1:** UV fused silica
 20 – 10 scratch and dig laser quality
 < 30 arc seconds typ (or per special request)
 Central diameter, >90% of dimension
 $\leq \lambda/10$ P-V at 632.8nm over the clear aperture

D10:	10.0 x 10.0;	D10C:	Ø10.0;
D12.7:	12.7 x 12.7;	D12.7C:	Ø12.7;
D15:	15.0 x 15.0;	D15C:	Ø15.0;
D20:	20.0 x 20.0;	D20C:	Ø20.0;
D25.4:	25.4 x 25.4;	D25.4C:	Ø25.4;
D30:	30.0 x 30.0;	D30C:	Ø30.0;
D38.1:	38.1 x 38.1;	D38.1C:	Ø38.1;
D50.8:	50.8 x 50.8;	D50.8C:	Ø50.8;

or other sizes upon request

Thickness (mm) (shown as "T" in P/N):
Dimension Tolerance (mm):

T1: 1.0; **T2:** 2.0; **T3:** 3.0; **T4:** 4.0; **T5:** 5.0; **T6:** 6.0; **T8:** 8.0
 Outer dimension: -0.25/+0.00 typ. Thickness: - 0.05/+0.05 typ.
 0.20mm at 45° typ.

Chamfer:
Input Surface(S1):
Output Surface(S2):

Beamsplitter NPBS coating, 45° AOI
 Broadband AR Coating R<0.5%(45° AOI) in specified band

Operation Band Selections (shown as "W" in P/N):

W1:	300~500nm;	R & T tolerance: ±5% (over entire band); Ts-Tp <15% and Rs-Rp <15%
W2:	400~700nm;	R & T tolerance: ±5% (over entire band); Ts-Tp <10% and Rs-Rp <10%
W3:	700~1100nm;	R & T tolerance: ±5% (over entire band); Ts-Tp <10% and Rs-Rp <10%
W4:	1200~1600nm;	R & T tolerance: ±5% (over entire band); Ts-Tp <15% and Rs-Rp <15%

Coating Damage Threshold:

2 kW/cm² CW, 100mJ/cm² with 10 nsec pulses at 10 Hz

Adhesion and Durability:

MIL-M-13508C, MIL-C-675C, MIL-C-14806

Housing/Package (shown as "H" in P/N):

NH: Un-mounted, typ.

M: Mounted: per request (F/M adapting ring, or SM1 series tube)

Ordering Information:

NPBS – P – <M> – <D> – <T> – <W> – <H>

Accessories:
more available



OPTIONS: mirror mounts, holders, posts, bases, clamps, XYZ translation stages... available upon request;

Call us for immediately delivery or demonstration/testing. 24-hour delivery for most of standard optics and opto-mechanical parts.

Photonik reserves the rights to change product designs with upgraded specifications for better performance without prior notice.

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