

Rocky Mountain Instrument Co.

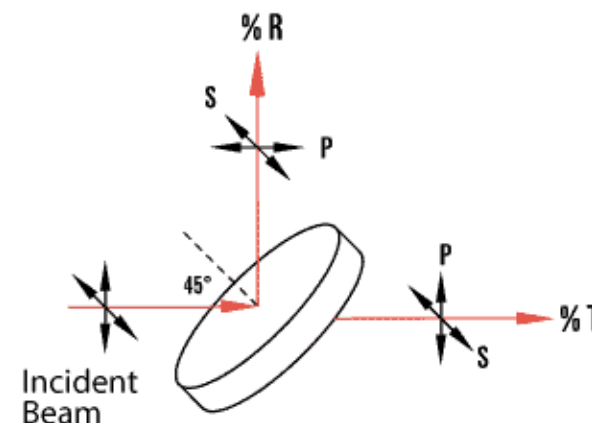
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Non-Polarizers » Plate Beamsplitters

Non-Polarizing Plate Beamsplitters divide an incident, monochromatic beam into reflected and transmitted components with the specified intensity ratio. They are designed for applications in which it is necessary to maintain the polarization characteristics of the incident beam.

The plate is coated on one side with an all dielectric, non-polarizing, partial reflection coating, and on the reverse side with a high efficiency, narrowband, anti-reflection coating.



RMI Standard Specifications

Materials:BK7, UVFS,
ZnSe**Angle of Incidence:**

45°

Surface Figure:BK7, UVFS:
ZnSe:Both surfaces:
 $\lambda/20$ at 632 nm
 $\lambda/40$ at 10.6 μm

Surface Quality:	Both surfaces:
BK7, UVFS:	10-5
ZnSe:	40-20
Diameter Tolerance:	+ 0.000", - 0.010"
Thickness Tolerance:	± 0.010"
Wedge:	≤ 3 arc minutes
Bevels:	0.010" – 0.030" at 45°
Clear Aperture:	Central 85% of diameter
Reflectance:	10% ≤ R ≤ 90% ± 3% $ R - R_{s,p} \leq 3\%$
Anti-Reflection Coating:	Unpolarized: R ≤ 0.5% at 45°

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The cornerstone of the RMI service philosophy is a collaborative approach with our customers to solve even the most technically challenging requirements. Working with clients in the early stages of development, we transition prototype concepts to efficient and manufacturable solutions.

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