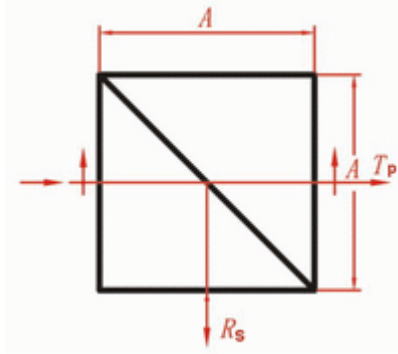


Broadband Polarization Beamsplitter Cube



Polarization Beamsplitter Cubes are constructed by cementing two precision right angle prisms together with the appropriate interference coating on the hypotenuse surface. The P-polarization of the input beam is transmitted, and S-polarization of the input beam is reflected.

Specification:

Material.....BK7 or SF5 optical glass

Dimension Tolerance..... $\pm 0.2\text{mm}$

Surface Quality.....60-40 scratch and dig

Beam Deviation..... < 3 arc minutes

Clear Aperture..... $> 90\%$

Extinction Ratio..... $> 100:1$

Bevel.....Protective

Coatings:

① Broadband polarization beamsplitter coating on

hypotenuse, $T_p > 90\%$, $T_s < 1\%$, $R_s > 99\%$, $R_p < 10\%$, @450nm~650nm, AOI 45°

② BBAR coating on all input and output faces, $R < 0.5\%$ @450nm~650nm, AOI 0°

P/N	Size	λ
70901	10×10×10	450~650nm
70902	12.7×12.7×12.7	450~650nm
70903	15×15×15	450~650nm
70904	20×20×20	450~650nm
70905	25.4×25.4×25.4	450~650nm

- Dimension unit: mm
- Other sizes and coatings are available upon request.