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Metalized Cube Beamsplitters

- All four faces AR coated and flat to $\lambda/4$
- Inexpensive, yet effective for many beamsplitting requirements
- Both transmission/reflection typically 25% - with 50% absorption
- Standard cubes from 10 to 30mm

For white light applications where even intensity splitting is required over a broad wavelength region these simple cubes, with metallic coatings, make an ideal beamsplitter.

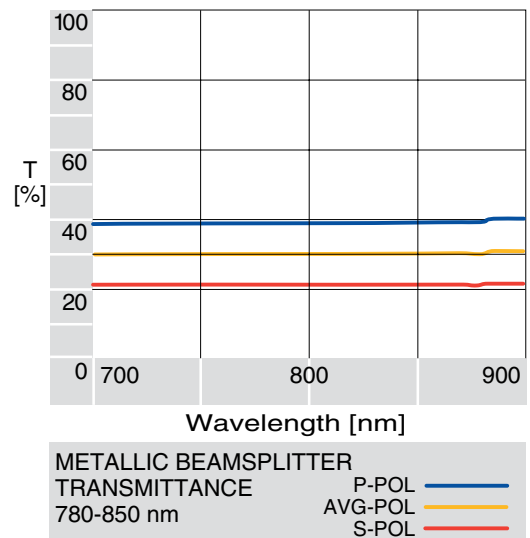
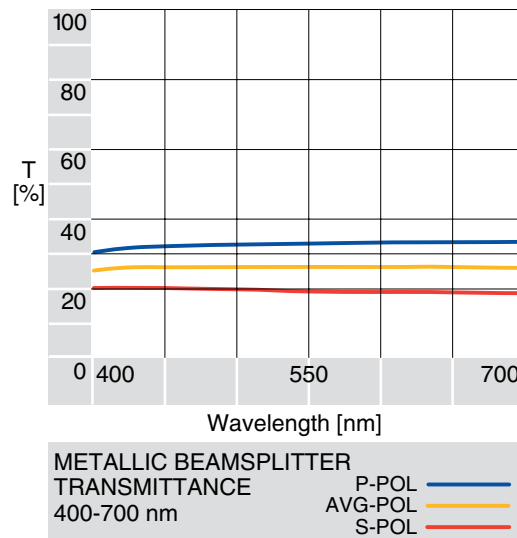


Specifications & Tolerances

Surface flatness: $\lambda/4$
 Surface quality: 40-20
 Transmission: $T_{av} = 30\%$, 400-700nm
 $T_{av} = 30\%$, 780-850nm

Dimensions: $\pm 0.2\text{mm}$
 Beam deviation: $\leq 10\text{arcmin}$
 Material: BK7, grade A

Metallic coatings absorb about 40-50% of the incident energy - transmitting typically 25% to one beam and 25% to the other. In applications where energy is limited (or often even worse, in high power applications) this energy loss may be unacceptable. In those situations all-dielectric coatings will be preferred.



Metalized Cube Beamsplitters

Wavelength Range (nm)	Cube Side, a (inches) (mm)	Price	PART NUMBER
400-700	0.39 10.0		039-0110
400-700	0.59 15.0		039-0120
400-700	0.79 20.0		039-0130
400-700	0.98 25.0		039-0140
400-700	1.18 30.0		039-0150
780-850	0.39 10.0		039-0170
780-850	0.59 15.0		039-0180
780-850	0.79 20.0		039-0190

Larger cube beamsplitters are available on request.

ORDERING & TECHNICAL SUPPORT
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