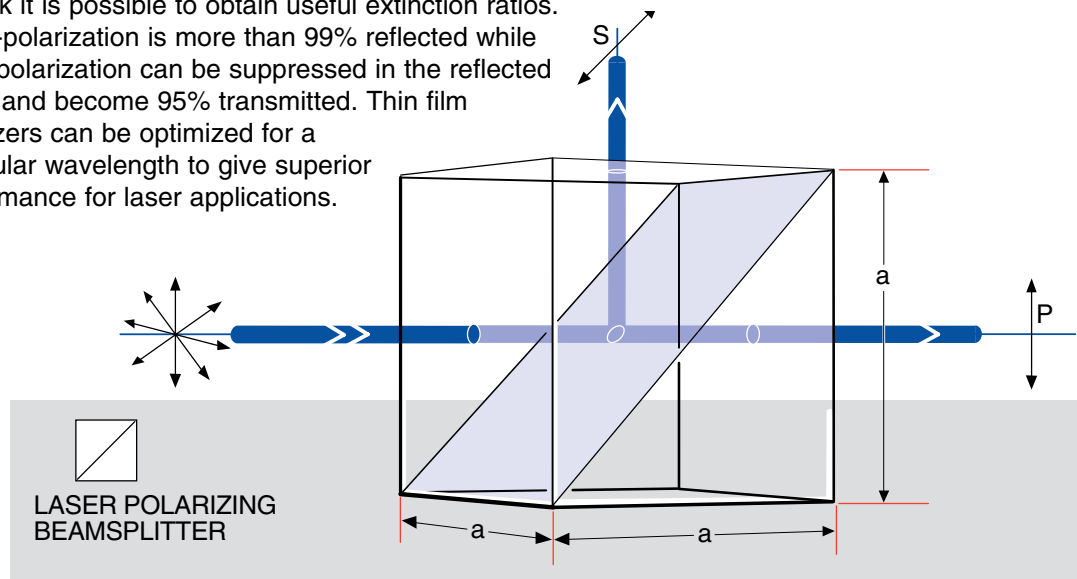


Laser Polarizing Cube Beamsplitters

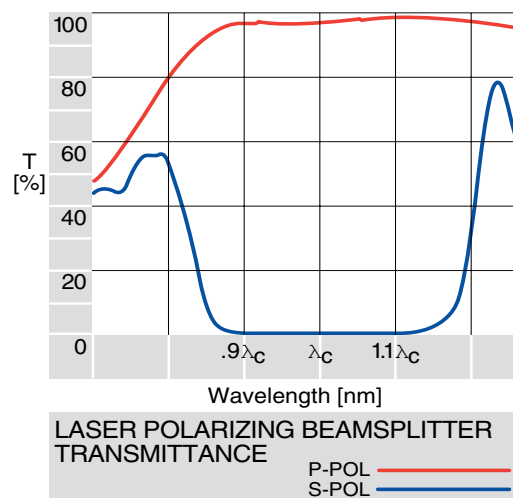
- Thin film polarizers optimized for use at popular laser wave lengths
- Transmitted extinction ratio of better than 1×10^{-2}
- Reflected extinction ratio of better than 2×10^{-2}
- Polarizing film mounted on the internal face of a cube beamsplitter
- Multilayer high efficiency narrowband Anti-Reflection coatings on all faces

These are thin film polarizers constructed as a cube. Thin film polarizers utilize the polarization which occurs on reflection from a plane surface. By combining a large number of such surfaces in a stack it is possible to obtain useful extinction ratios. The s-polarization is more than 99% reflected while the p-polarization can be suppressed in the reflected beam and become 95% transmitted. Thin film polarizers can be optimized for a particular wavelength to give superior performance for laser applications.



Specifications & Tolerances

Dimensions: $\pm 0.2\text{mm}$
 Surface flatness: $\lambda/4$
 Beam deviation: $\leq 10\text{arcmin}$
 Asymmetry: 1°
 Surface quality: 40-20
 Material: BK7
 Coating: Narrowband Anti-Reflection coating on faces
 Extinction ratio: $T_s < 1 \times 10^{-2}$
 $R_p < 2 \times 10^{-2}$
 Damage threshold: $< 100\text{mJ/cm}^2$ in 10ns
 @1064nm



Please call if you need polarizing beamsplitters for other wavelengths, other sizes, or other configurations. We believe that you will be pleased by our competitive prices for volume requirements.

Laser Polarizing Cube Beamsplitters

Wavelength Range (nm)	Laser Type	Side, a (mm)	Price	PRODUCT NUMBER
441.6	HeCd	10.0		067-0120
441.6	HeCd	15.0		067-0130
441.6	HeCd	20.0		067-0140
457.9	HeCd	10.0		067-0170
457.9	HeCd	15.0		067-0180
457.9	HeCd	20.0		067-0190

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 FAX (949) 851-5058
 E-MAIL
 sales@optosigma.com
 WEB
 www.optosigma.com



Laser Polarizing Cube Beamsplitters (continued)

	Wavelength Range (nm)	Laser Type	Side, a (mm)	Price	PRODUCT NUMBER
Spherical Lenses					
Cylindrical Lenses					
Lens Kits					
Achromatic Doublets					
Multi-Element	488	Ar Ion	10.0		067-0230
Micro Optics	488	Ar Ion	15.0		067-0240
Mirrors	488	Ar Ion	20.0		067-0250
Prisms	514.5	Ar Ion	10.0		067-0280
Substrates & Windows	514.5	Ar Ion	15.0		067-0290
	514.5	Ar Ion	20.0		067-0330
Beamsplitters					
Polarizers	532	YAG 2nd	10.0		067-0360
	532	YAG 2nd	12.7		067-0365
Filter & Apertures	532	YAG 2nd	15.0		067-0370
	532	YAG 2nd	20.0		067-0380
	632.8	HeNe	5.0		067-0440
	632.8	HeNe	10.0		067-0450
	632.8	HeNe	12.7		067-0455
	632.8	HeNe	15.0		067-0460
	632.8	HeNe	20.0		067-0470
	670	Diode	5.0		067-0490
	670	Diode	10.0		067-0492
	670	Diode	12.7		067-0493
	670	Diode	15.0		067-0494
	670	Diode	20.0		067-0496
	780	Diode	5.0		067-0550
	780	Diode	10.0		067-0560
	780	Diode	12.7		067-0565
	780	Diode	15.0		067-0570
	780	Diode	20.0		067-0580
	830	Diode	5.0		067-0670
	830	Diode	10.0		067-0680
	830	Diode	12.7		067-0685
	830	Diode	15.0		067-0690
	830	Diode	20.0		067-0770
	1064	YAG	5.0		067-1020
	1064	YAG	10.0		067-1030
	1064	YAG	12.7		067-1040
	1064	YAG	15.0		067-1050
	1064	YAG	20.0		067-1060
	1300	Diode	5.0		067-1130
	1300	Diode	10.0		067-1140
	1300	Diode	12.7		067-1145
	1300	Diode	15.0		067-1150
	1300	Diode	20.0		067-1160
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(949) 851-5881	1321-1343	Diode	10.0		067-1172
FAX (949) 851-5058	1321-1343	Diode	12.7		067-1173
	1321-1343	Diode	15.0		067-1174
	1321-1343	Diode	20.0		067-1176
E-MAIL	1550	Diode	5.0		067-1190
sales@optosigma.com	1550	Diode	10.0		067-1220
WEB	1550	Diode	12.7		067-1225
www.optosigma.com	1550	Diode	15.0		067-1230
	1550	Diode	20.0		067-1240

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