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12.7mm 405nm, High Energy Polarizing Cube Beamsplitter



Laser Line High Energy Polarizing Cube Beamsplitters

Stock **#71-024** **4 In Stock**

⊖ 1 ⊕ **\$S\$1,225⁰⁰**

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Volume Pricing	
Qty 1-10	\$S\$1,225.00 each
Qty 11-25	\$S\$994.00 each
Qty 26-99	\$S\$903.00 each
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General

Linear Polarizer **Type:**

Physical & Mechanical Properties

90 **Clear Aperture (%):**

Cube **Construction:**

12.7 x 12.7 x 12.7 +0.0/-0.3 **Dimensions (mm):**

Optical Properties

Beam Deviation (arcmin):
<3

Design Wavelength DWL (nm):
405

Extinction Ratio:
1000:1

Reflection (%):
 $R_s > 99.5\% @ 405\text{nm}$

Substrate:
[Fused Silica](#) (Coming 7980)

Surface Flatness (P-V):
 $\lambda/6$

Surface Quality:
40-20

Transmission (%):
 $T_p > 97\% @ 405\text{nm}$

Wavelength Range (nm):
395 - 415

Damage Threshold, By Design:
Typical: $20 \text{ J/cm}^2 @ 1064\text{nm}$ 10ns, 20Hz

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

Reach 247:
[Compliant](#)

Product Details

- Optically Contacted Design Increases Damage Threshold and Eliminates Cement Fluorescence
- Greater than 96% Transmission of P-Polarized Light
- High Extinction Ratio of Greater than 1000:1

Laser Line High Energy Polarizing Cube Beamsplitters are an easy-to-mount, high contrast alternative to [Brewster windows](#). The beamsplitters feature greater than 96% transmission of p-polarized light, along with an $\lambda/6$ surface flatness for minimal wavefront distortion. To increase the laser damage threshold and eliminate fluorescence, these polarizers are constructed by optically contacting, rather than cementing, UV Fused Silica Right Angle Prisms. Laser Line High Energy Polarizing Cube Beamsplitters are offered in a 12.7 x 12.7 x 12.7mm or 25.4 x 25.4 x 25.4mm size. The beamsplitters are available for use with a variety of common Nd:YAG laser wavelengths.

