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25.4mm 405nm, High Energy Polarizing Cube Beamsplitter



Laser Line High Energy Polarizing Cube Beamsplitters

Stock **#71-025** **5 In Stock**

⊖ 1 ⊕ **S\$1,778⁰⁰**

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Volume Pricing	
Qty 1-10	S\$1,778.00 each
Qty 11-25	S\$1,442.00 each
Qty 26-99	S\$1,302.00 each
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Product Downloads

General

Linear Polarizer

Type:

Physical & Mechanical Properties

90

Clear Aperture (%):

Cube

Construction:

25.4 x 25.4 x 25.4 +0.0/-0.3
Dimensions (mm):

Optical Properties

<3
Beam Deviation (arcmin):

405
Design Wavelength DWL (nm):

1000:1
Extinction Ratio:

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

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

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

40-20
Surface Quality:

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

395 - 415
Wavelength Range (nm):

Typical: 20 J/cm² @ 1064nm 10ns, 20Hz
Damage Threshold, By Design:

Regulatory Compliance

[Compliant](#)
RoHS 2015:

[View](#)
Certificate of Conformance:

[Compliant](#)
Reach 247:

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.

