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TECHSPEC® 50mm NIR, Polarizing Cube Beamsplitter



TECHSPEC® Broadband Polarizing Cube Beamsplitters

Stock **#65-606** **8 In Stock**

⊖ 1 ⊕ **S\$1,240⁴⁰**

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Volume Pricing	
Qty 1-5	S\$1,240.40 each
Qty 6-25	S\$992.60 each
Qty 26-99	S\$930.30 each
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General

Linear Polarizer **Type:**

Physical & Mechanical Properties

90 **Clear Aperture (%):**

Cube **Construction:**

Dimensions (mm):

50.0 x 50.0 x 50.0 ±0.1

Optical Properties**Beam Deviation (arcmin):**

±3

Coating Specification:R_{avg} <0.5% @ 700 - 1100nm**Extinction Ratio:**

500:1

P-Polarization Transmission (%):

>90

S-Polarization Reflection (%):

>99

Substrate: **N-SF11****Surface Quality:**

40-20

Wavelength Range (nm):

700 - 1100

Power (fringes) @ 632.8nm:

1.25

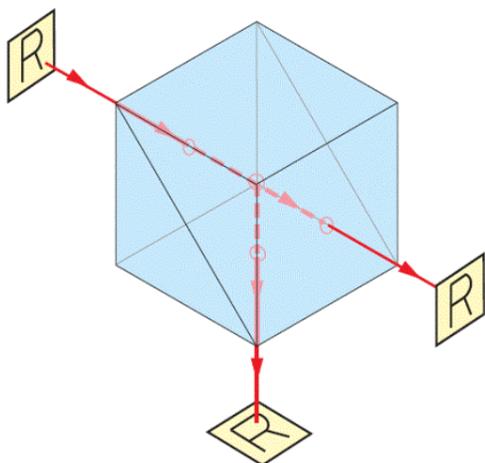
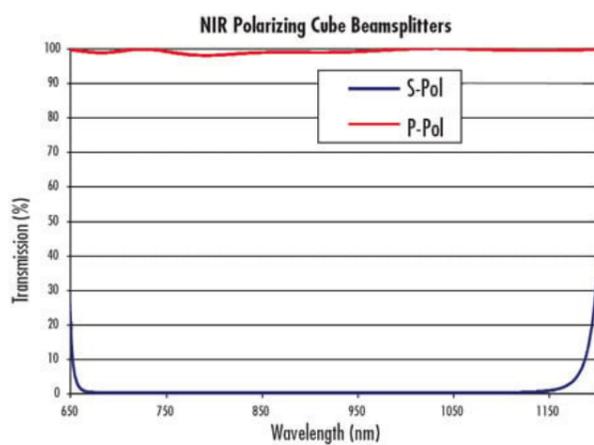
Irregularity (fringes) @ 632.8nm:

0.25

Regulatory Compliance**Certificate of Conformance:**[View](#)**Product Details**

- Visible and NIR Coating Options Offered
- 500:1 Extinction Ratio
- AR Coated for <0.5% reflection per surface

TECHSPEC® Broadband Polarizing Cube Beamsplitters split randomly polarized light into two orthogonal, linearly polarized components. These beamsplitters offer transmission greater than 90% for P-polarized light and reflection greater than 99% for S-Polarized light across the entire design wavelength range. Each beamsplitter consists of a pair of precision high tolerance [right angle prisms](#) cemented together with a dielectric coating on the hypotenuse of one of the prisms. TECHSPEC® Broadband Polarizing Cube Beamsplitters have an anti-reflection (AR) coating applied to each face of the beamsplitter to achieve less than 0.5% reflection per surface. The beamsplitters are offered with both visible and NIR coatings.

Technical Information**Custom**

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we

provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).
