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## 12.5mm Square Broadband Polarizing Plate Beamsplitter



Stock **#48-544** [CONTACT US](#)

A\$318<sup>40</sup>

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Volume Pricing	
Qty 1-10	A\$318.40 each
Qty 11-25	A\$265.60 each
Qty 26+	A\$228.80 each
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### Product Downloads

#### General

Linear Polarizer Type:

#### Physical & Mechanical Properties

8.5x8.5 Clear Aperture CA (mm):

12.50 Length (mm):

12.5 x 12.5	<b>Dimensions (mm):</b>
0.70 ±0.07	<b>Thickness (mm):</b>
±0.2	<b>Dimensional Tolerance (mm):</b>
Wire Grid	<b>Construction:</b>
12.50	<b>Width (mm):</b>

## Optical Properties

45 ±15	<b>Angle of Incidence (°):</b>
<a href="#">Corning Eagle XG</a>	<b>Substrate:</b> <input type="checkbox"/>
80-50	<b>Surface Quality:</b>
Surface 2: $R_{abs} < 2.0\%$ @ 420 - 670nm	<b>Coating Specification:</b>
420 - 700	<b>Wavelength Range (nm):</b>
±1	<b>Transmission Axis Tolerance (°):</b>

## Material Properties

$31.7 \times 10^{-7}/^{\circ}C$	<b>Thermal Expansion:</b>
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## Environmental & Durability Factors

-40 to +200	<b>Operating Temperature (°C):</b>
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## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">Compliant</a>	<b>Reach 224:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>

## Product Details

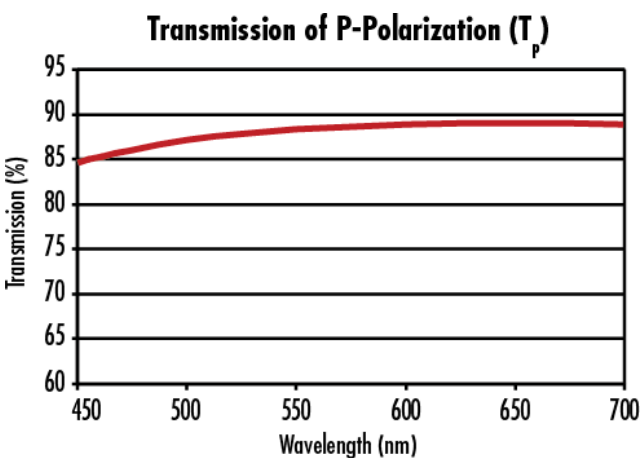
- Wire Grid Technology
- Reflects S-Polarized Light, Transmits P-Polarized Light
- Ideal for High Temperature Environments

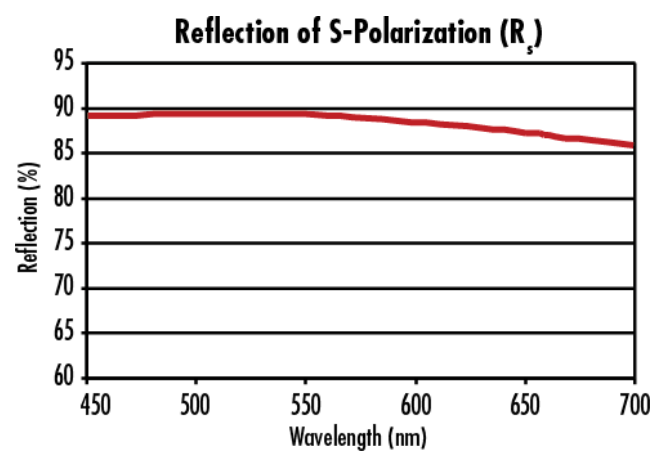
Broadband Polarizing Plate Beamsplitters consist of a thin layer of aluminum MicroWires adhered to a glass window. These beamsplitters are an alternative and economical substitute for ruled or holographic [wire grid polarizers](#). Providing exceptional image contrast and uniformity, these beamsplitters are ideal for applications requiring large angular apertures and high throughput. Broadband Polarizing Plate Beamsplitters reflect S-polarized light and transmit P-polarized light. The beamsplitters are offered in a 12.5 x 12.5mm or 25 x 25mm size.

**Note:** MicroWires are very fragile. Handle these beamsplitters with care.

If the operating temperature will exceed 100°C, turn the MicroWires surface away from the input beam for optimum performance. At temperatures below 100°C, the MicroWires can be oriented towards the input beam.

## Technical Information





## Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools