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12.5mm Square Broadband Polarizing Plate Beamsplitter



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

- 1 + £159^{.20}

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Volume Pricing	
Qty 1-10	£159.20 each
Qty 11-25	£132.80 each
Qty 26+	£114.40 each
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! Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Linear Polarizer **Type:**

Physical & Mechanical Properties

8.5 x 8.5 **Clear Aperture CA (mm):**

12.50 **Length (mm):**

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

Optical Properties

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

Material Properties

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

-40 to +200	Operating Temperature (°C):
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Regulatory Compliance

Compliant	RoHS 2015:
Compliant	Reach 224:
View	Certificate of Conformance:

Product Details

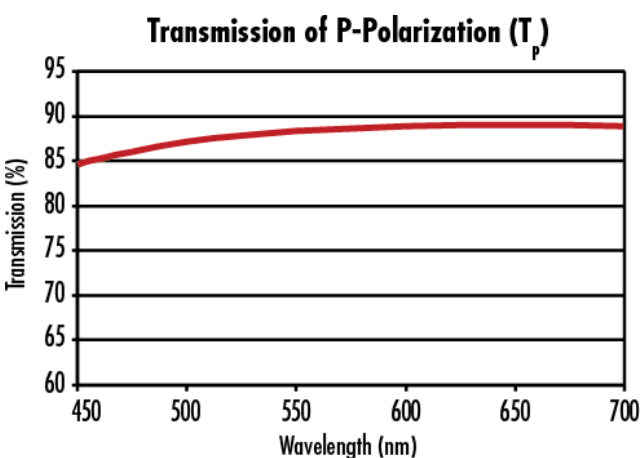
- Wire Grid Technology
- Reflects S-Polarized Light, Transmits P-Polarized Light
- Ideal for High Temperature Environments

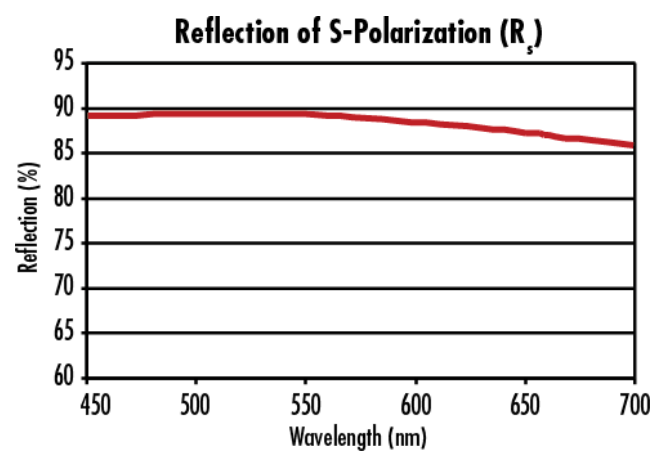
Broadband Polarizing Plate Beamsplitters consist of a thin layer of aluminum MicroWires adhered to a glass window. These beamsplitters are an alternative and economical substitute for ruled or holographic [wire grid polarizers](#). Providing exceptional image contrast and uniformity, these beamsplitters 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