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TECHSPEC® 633nm, 50mm Diameter, Thin Film Laser Line Beamsplitter



TECHSPEC High Energy Laser Line Polarizers

Stock #21-891 CLEARANCE **1 In Stock**

⊖ 1 ⊕ €655⁰⁰

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General

Plate Beamsplitter **Type:**

Physical & Mechanical Properties

90 **Clear Aperture (%):**

45.00 **Clear Aperture CA (mm):**

Construction:

Thin Film Dielectric

50.00 **Diameter (mm):**

+0.00/-0.25 **Dimensional Tolerance (mm):**

6.00 ±0.25 **Thickness (mm):**

Optical Properties

45±2 **Angle of Incidence (°):**

633 **Design Wavelength DWL (nm):**

10,000:1 **Extinction Ratio:**

>98 **P-Polarization Transmission (%):**

>99 **S-Polarization Reflection (%):**

[Fused Silica](#) **Substrate:**

40-20 **Surface Quality:**

M4 @ 633nm **Transmitted Wavefront, P-V:**

2 J/cm² @ 532nm, 10ns, S or P Polarization **Damage Threshold, By Design:**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

Product Details

- 45° Angle of Incidence
- Reflects S-Polarized Light, Transmits P-Polarized Light
- Available for Nd:YAG Harmonics and HeNe Wavelengths

TECHSPEC® Laser Line Polarizing Plate Beamsplitters split randomly polarized light into two orthogonal, linearly polarized components. S-polarized light is reflected at a 90° angle, while P-polarized light is transmitted. These beamsplitters feature thin film dielectric coatings which provide high laser damage thresholds for optimal performance in many laser applications. TECHSPEC® Laser Line Polarizing Plate Beamsplitters UV grade fused silica substrate maximizes performance while the hard anti-reflection coating makes them durable and easy to clean.

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](#).