

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



TECHSPEC High Energy Laser Line Polarizers

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

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1

+

₹50,108

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General	
Plate Beamsplitter	Type:
Physical & Mechanical Properties	
90	Clear Aperture (%):
45.00	Clear Aperture CA (mm):
Thin Film Dielectric	Construction:

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:
λ/4 @ 633nm	Transmitted Wavefront, P-V:
2 J/cm² @ 532nm, 10ns, S or P Polarization	Damage Threshold, By Design: ☐
Regulatory Compliance	
View	Certificate of Conformance:
United States	Country of Origin:
Edmund Optics India Private Limited	Imported By:

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](#).