

TECHSPEC[®] 532nm, 50mm Diameter, Thin Film Laser Line Polarizer



TECHSPEC High Energy Laser Line Polarizers

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1

+

₹78,629

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General

Linear Polarizer

Type:

Physical & Mechanical Properties

45.00

Clear Aperture CA (mm):

50.00

Diameter (mm):

Thickness (mm):

6.00 ±0.25	
+0.00/-0.25	Dimensional Tolerance (mm):
Thin Film Dielectric	Construction:
90	Clear Aperture (%):
Optical Properties	
45 ±2	Angle of Incidence (°):
532	Design Wavelength DWL (nm):
10,000:1	Extinction Ratio:
Fused Silica (Corning 7980)	Substrate: ☐
40-20	Surface Quality:
>98 (P-Polarization)	Transmission (%):
λ/4 @ 633nm	Transmitted Wavefront, P-V:
2 J/cm² @ 532nm, 10ns, S or P Polarization	Damage Threshold, By Design: ☐
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:
United States	Country of Origin:
Edmund Optics India Private Limited	Imported By:

Product Details

- High Extinction Ratio of 10,000:1
- 45° Angle of Incidence
- Available for Nd:YAG Harmonics and HeNe Wavelengths

TECHSPEC® Thin Film Laser Line Polarizers are used to transmit P-polarized light while reflecting S-polarized light. These polarizers with thin film dielectric coatings combine high laser damage thresholds with high extinction ratios for optimal performance in a range of laser applications. The UV grade fused silica substrate maximizes performance, while the hard anti-reflection coating makes these durable polarizers easy to clean and simple to align. TECHSPEC® Thin Film Laser Line Polarizers have an 45° angle of incidence. The polarizers are available for common laser wavelengths.



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](#).