

**TECHSPEC® 50mm Dia., 0.50 Numerical Aperture, Uncoated, Precision Aspheric Lens**



TECHSPEC® Precision Aspheric Lenses

Stock **#37-440** **7 In Stock**

[Other Coating Options](#)

1  MRP ₹70,523

Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹70,523 each
Qty 6-10	₹63,460 each
Qty 11-25	₹57,811 each
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**General**

Aspheric Lens **Type:**

**Physical & Mechanical Properties**

50.00 +0.00/-0.025 **Diameter (mm):**

<3	<b>Centering (arcmin):</b>
45.00	<b>Clear Aperture CA (mm):</b>
5.08	<b>Edge Thickness ET (mm):</b>
13.06 ±0.10	<b>Center Thickness CT (mm):</b>
Protective as needed	<b>Bevel:</b>

Plano	<b>Shape of Back Surface:</b>
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## Optical Properties

50.00 @587.6nm	<b>Effective Focal Length EFL (mm):</b>
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0.50	<b>Numerical Aperture NA:</b>
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42.77	<b>Back Focal Length BFL (mm):</b>
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<b>N-SF6</b>	<b>Substrate:</b> <input type="checkbox"/>
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587.6	<b>Aspheric Design Wavelength (nm):</b>
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0.4λ	<b>Asphere Figure Error, RMS @ 632.8nm:</b>
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Uncoated	<b>Coating:</b>
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40-20	<b>Surface Quality:</b>
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1.00	<b>f#:</b>
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25.36	<b>Abbe Number (v<sub>d</sub>):</b>
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1.805	<b>Index of Refraction (n<sub>d</sub>):</b>
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390 - 2500	<b>Wavelength Range (nm):</b>
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Infinite	<b>Conjugate Distance:</b>
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587.6	<b>Focal Length Specification Wavelength (nm):</b>
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20.00	<b>Power (diopters):</b>
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## Material Properties

9.0	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>
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## Regulatory Compliance

<b>Compliant</b>	<b>RoHS 2015:</b>
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<b>View</b>	<b>Certificate of Conformance:</b>
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<b>Compliant</b>	<b>Reach 233:</b>
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Singapore	<b>Country of Origin:</b>
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Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	<b>Imported By:</b>
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## Product Details

- Improved Versions of Our Aspheric Lenses
- Precision Grade Aspheric Surfaces
- High Numerical Apertures to Maximize Throughput

TECHSPEC® Precision Aspheric Lenses are CNC polished aspheric lenses that feature a 0.4λ RMS aspheric figure error. The precision aspheric figure error makes these lenses ideal for applications that require spherical aberration correction, including imaging and laser focusing applications. These aspheric lenses can also be used to replace multiple spherical elements in optical assemblies to reduce weight and cost. TECHSPEC Precision Aspheric Lenses are available with diameters from 6 to 50mm and high numerical apertures to maximize light throughput.

## Compatible Mounts

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