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**TECHSPEC® 50mm Dia., 0.83 Numerical Aperture, Uncoated, Precision Aspheric Lens**



TECHSPEC® Precision Aspheric Lenses

Stock **#37-438** **14 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ **S\$1,118<sup>60</sup>**

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Volume Pricing	
Qty 1-5	<b>S\$1,118.60</b> each
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Qty 11-25	<b>S\$917.00</b> each
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**General**

Aspheric Lens **Type:**

**Physical & Mechanical Properties**

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

**Centering (arcmin):**

<3

45.00 Clear Aperture CA (mm):

7.35 Edge Thickness ET (mm):

21.56 ±0.10 Center Thickness CT (mm):

Protective as needed Bevel:

Plano Shape of Back Surface:

## Optical Properties

30.00 @ 587.6nm Effective Focal Length EFL (mm):

0.83 Numerical Aperture NA:

18.06 Back Focal Length BFL (mm):

[N-SF6](#) Substrate: □

587.6 Aspheric Design Wavelength (nm):

0.4λ Asphere Figure Error, RMS @ 632.8nm:

Uncoated Coating:

40-20 Surface Quality:

0.60 f#:

25.36 Abbe Number (v<sub>d</sub>):

1.805 Index of Refraction (n<sub>d</sub>):

390 - 2500 Wavelength Range (nm):

Infinite Conjugate Distance:

587.6 Focal Length Specification Wavelength (nm):

33.33 Power (diopters):

## Material Properties

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

## Regulatory Compliance

[Compliant](#) RoHS 2015:

[View](#) Certificate of Conformance:

[Compliant](#) Reach 233:

## 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