

**TECHSPEC® 50mm Dia. X 50mm FL Uncoated, Double Sided Aspheric Lens**



Stock #18-423 **15 In Stock**

⊖ 1 ⊕ **\$\$1,146<sup>00</sup>**

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Volume Pricing	
Qty 1-5	<b>\$\$1,146.60</b> each
Qty 6-25	<b>\$\$917.00</b> each
Qty 26-49	<b>\$\$856.80</b> each
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Product Downloads

**General**

Aspheric Lens **Type:**

**Physical & Mechanical Properties**

50.00 +0.0/-0.025 **Diameter (mm):**

<3 **Centering (arcmin):**

45 Clear Aperture CA (mm):

5 Edge Thickness ET (mm):

17.00 ±0.1 Center Thickness CT (mm):

None Bevel:

## Optical Properties

50.00 Effective Focal Length EFL (mm):

44.04 Back Focal Length BFL (mm):

N-BK7 Substrate:

587.6 Aspheric Design Wavelength (nm):

0.4λ RMS and 2λ PV Asphere Figure Error, RMS @ 632.8nm:

Uncoated Coating:

40-20 Surface Quality:

1.00 f#:

330 - 2400 Wavelength Range (nm):

48.6 Radius  $R_1=R_2$  (mm):

587.6 Focal Length Specification Wavelength (nm):

20.00 Power (diopters):

## Regulatory Compliance

View Certificate of Conformance:

### Need different specs or modifications?

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

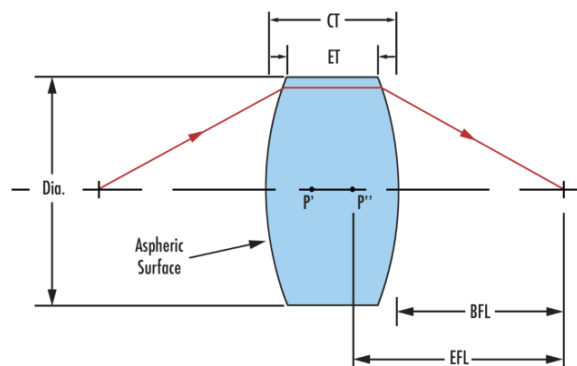
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

- Designed for 1X Magnification
- Ideal for Finite Conjugate Applications
- 10 to 50mm Diameter Options

TECHSPEC® Double-Sided Aspheric Lenses are ideal for 1:1 imaging applications. Featuring high numerical apertures with an f# of 1.0, these lenses are excellent for light collection and are available in 10 to 50mm diameters. These double-convex lenses, also known as bi-convex lenses, can be used to reduce the number of optical elements in a system while providing superior performance. TECHSPEC® Double-Sided Aspheric Lenses are optimized for 1X magnification, however the aspheric design accommodates up to 4X magnification with excellent performance.

## Technical Information



## Compatible Mounts

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