

TECHSPEC[®] 50mm Dia x 50mm FL, Uncoated, High Precision Aspheric Lens



TECHSPEC[®] High Precision Aspheric Lenses

Stock **#12-448** **8 In Stock**

☐ [Other Coating Options](#)

-

1

+

A\$1,678⁴⁰

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Volume Pricing	
Qty 1-5	A\$1,678.40 each
Qty 6-10	A\$1,510.40 each
Qty 11+	A\$1,409.60 each
Need More?	Request Quote

Product Downloads

General

Aspheric Lens

Type:

3D Surface Profile included with uncoated lenses

Note:

Physical & Mechanical Properties

Diameter (mm):

50.00 +0.00/-0.025	
Centering (arcmin):	<1
Clear Aperture CA (mm):	45.00
Edge Thickness ET (mm):	4.82
Center Thickness CT (mm):	13.06
Bevel:	Protective as needed
Shape of Back Surface:	Plano
Optical Properties	
Effective Focal Length EFL (mm):	50.00 @ 587.6nm
Numerical Aperture NA:	0.50
Back Focal Length BFL (mm):	42.77
Substrate: 	
Aspheric Design Wavelength (nm):	587.6
Asphere Figure Error, RMS @ 632.8nm:	$\lambda/40$
Coating:	Uncoated
Surface Quality:	40-20
f/#:	1
Wavelength Range (nm):	390 - 2500
Conjugate Distance:	Infinite
Power (diopters):	20.00
Regulatory Compliance	
Certificate of Conformance:	View

Product Details

- High Precision Aspheric Surface
- 3D Surface Profiles Included with Uncoated Lenses
- Uncoated and <0.25% Reflectance V-Coat Available

TECHSPEC® High Precision Aspheric Lenses guarantee better than $\lambda/40$ wave aspheric figure error. Achieved via precision magneto-rheological finishing (MRF), these aspheres offer high numerical apertures with diameters ranging from 15 to 50mm and are ideal for a variety of imaging and low light level applications. Each TECHSPEC High Precision Aspheric Lens is individually measured. 3D surface profiles are included with uncoated lenses. For diffraction-limited aspheres designed at specific Nd:YAG laser wavelengths, see our [TECHSPEC High Precision Laser Grade Aspheric Lenses](#).

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](#).

Compatible Mounts