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



TECHSPEC[®] High Precision Aspheric Lenses

Stock **#22-909** **1 In Stock**

[Other Coating Options](#)

-

1

+

S\$1,538⁶⁰

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Volume Pricing	
Qty 1-5	S\$1,538.60 each
Qty 6-10	S\$1,384.60 each
Qty 11+	S\$1,292.20 each
Need More?	Request Quote

Product Downloads

General

Aspheric Lens

Type:

3D Surface Profile not included with coated 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: □	N-SF6
Aspheric Design Wavelength (nm):	587.6
Asphere Figure Error, RMS @ 632.8nm:	λ/40
Coating:	NIR+ (600-1050nm)
Coating Specification:	R _{avg} <0.5% @ 600 - 1050nm @ ±30° AOI R _{abs} <1.5% @ 600 - 1050nm @ ±30° AOI
Surface Quality:	40-20
f/#:	1
Wavelength Range (nm):	600 - 1050
Conjugate Distance:	Infinite
Power (diopters):	20.00

Regulatory Compliance

RoHS 2015:	Compliant
Certificate of Conformance:	View
Reach 250:	Compliant

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 λ/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](#).