

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



TECHSPEC[®] High Precision Aspheric Lenses

Stock **#22-902** **2 In Stock**
[Other Coating Options](#)

-

1

+

£879²⁰

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Volume Pricing	
Qty 1-5	£879.20 each
Qty 6-10	£791.20 each
Qty 11+	£738.40 each
Need More?	Request Quote

i Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Aspheric Lens

Type:

Note:
3D Surface Profile not included with coated lenses

Physical & Mechanical Properties

50.00 +0.00/-0.025	Diameter (mm):
<1	Centering (arcmin):
45.00	Clear Aperture CA (mm):
4.82	Edge Thickness ET (mm):
13.06	Center Thickness CT (mm):
Protective as needed	Bevel:
Plano	Shape of Back Surface:
Optical Properties	
50.00 @ 587.6nm	Effective Focal Length EFL (mm):
0.50	Numerical Aperture NA:
42.77	Back Focal Length BFL (mm):
N-SF6	Substrate: 
587.6	Aspheric Design Wavelength (nm):
λ/40	Asphere Figure Error, RMS @ 632.8nm:
SWIR+ (900-1700nm)	Coating:
R _{avg} <0.5% @ 900 - 1700nm @ ±30° AOI R _{abs} <1.5% @ 900 - 1700nm @ ±30° AOI	Coating Specification:
40-20	Surface Quality:
1	f/#:
900 - 1700	Wavelength Range (nm):
Infinite	Conjugate Distance:
20.00	Power (diopters):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 250:

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](#).

