

TECHSPEC®

150mm Dia., 0.50 Numerical Aperture NIR Coated, Aspheric Lens



Stock #22-721 **3 In Stock** [Other Coating Options](#)

1 **C\$3,486^{.00}**

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Volume Pricing	
Qty 1-5	C\$3,486.00 each
Qty 6-25	C\$3,136.00 each
Qty 26-49	C\$2,926.00 each
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Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
Zemax:zar	Zemax:zmx
eDrawing:eprt	Code V:seq
EO Spec Sheet	Download All

General

Type: Aspheric Lens

Physical & Mechanical Properties

Diameter (mm): 150.00 +0.0/-0.1	Centering (arcmin): ≤5
Clear Aperture CA (mm): 128	Edge Thickness ET (mm): 7.51
Center Thickness CT (mm): 48.30 ±0.1	Bevel: Protective as needed
Shape of Back Surface: Plano	

Optical Properties

Effective Focal Length EFL (mm): 150.00 @ 587.6nm	Numerical Aperture NA: 0.50
Back Focal Length BFL (mm): 118.16	Substrate: N-BK7
Asphere Figure Error, RMS @ 632.8nm: 1.2λ	Coating: BBAR (600-1050nm)
Coating Specification: R _{avg} ≤1.5% @ 600 - 1050nm	Surface Quality: 60-40
f/#: 1.00	Wavelength Range (nm): 350 - 2200

Conjugate Distance:	Infinite	Focal Length Specification Wavelength (nm):	587.6
Power (diopters):	6.67		

Regulatory Compliance

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

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

- Diameters from 10 to 200mm
- Focal Lengths from 7.5 to 300mm
- Broadband AR Coatings Available

TECHSPEC® Aspheric Lenses are designed to focus light while eliminating spherical aberration from divergent light sources in applications including focusing the output of a laser diode. **Aspheric lenses can increase the numerical aperture of a lens while minimizing system aberrations.** Aspheric lenses may also reduce the number of elements needed in a multi-element system. Aspheric lenses can reduce overall system weight while providing advantages such as increasing throughput or simplifying assembly.

TECHSPEC Aspheric Lenses feature low f/#'s for optimum light gathering performance. Prescription data is available to easily integrate these aspheric lenses into an optical system. These lenses have also been computer optimized to eliminate spherical aberration while minimizing higher order aberrations. VIS coating option provides less than 1.5% reflection from 425 – 675nm. NIR coating option provides less than 1.5% reflection from 600 – 1050nm. Contact our sales department for volume pricing or for help specifying a custom aspheric lens.

Technical Information

Related Products



C, S, and T-Mount Circular Optic Mounts



Optic Component Mounts



UV Fused Silica Aspheric Lenses



Precision Aspheric Lenses

Resources

Media Type

- Application Note
- Scientific Paper
- Trending in Optics
- Video
- Published Article
- FAQ
- Glossary

APPLICATION NOTE
Anti-Reflection (AR) Coatings

APPLICATION NOTE
An Introduction to Optical Coatings

CASE STUDIES
Laser Optics for Eye Surgery

APPLICATION NOTE
Lens Geometry Performance Comparison

APPLICATION NOTE
All About Aspheric Lenses

WEBINARS
Design Considerations for Custom Aspheres

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