

TECHSPEC®

75mm Dia., 0.33 Numerical Aperture NIR Coated, Aspheric Lens



Stock #22-714 **5 In Stock** [Other Coating Options](#)

1 MRP ₹90,701

Price inclusive of all taxes

ADD TO CART

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | ₹90,701 each |
| Qty 6-25 | ₹81,721 each |
| Qty 26-49 | ₹76,173 each |
| Need More? | Request Quote |

| 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): | 75.00 +0.0/-0.1 | Centering (arcmin): | ≤5 |
| Clear Aperture CA (mm): | 67.5 | Edge Thickness ET (mm): | 4.13 |
| Center Thickness CT (mm): | 16.80 ±0.1 | Bevel: | Protective as needed |
| Shape of Back Surface: | Plano | | |

Optical Properties

| | | | |
|---|---------------------------------------|-----------------------------------|-------------------|
| Effective Focal Length EFL (mm): | 112.50 @ 587.6nm | Numerical Aperture NA: | 0.33 |
| Back Focal Length BFL (mm): | 101.42 | 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/#: | 1.50 | Wavelength Range (nm): | 350 - 2200 |
| Conjugate Distance: | Infinite | Focal Length Specification | 587.6 |

| | | | |
|------------------------------|------------------|------------------------------------|---|
| | | Wavelength (nm): | |
| Power (diopters): | 8.89 | | |
| Regulatory Compliance | | | |
| RoHS 2015: | Compliant | Certificate of Conformance: | View |
| Reach 250: | Compliant | | |
| Country of Origin: | Singapore | Imported By: | Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91-80-6845 0000 |

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

Frequently Purchased Together



#49-109 - 15mm Dia., 0.66 Numerical Aperture NIR Coated, Aspheric Lens
₹30,167

Qty



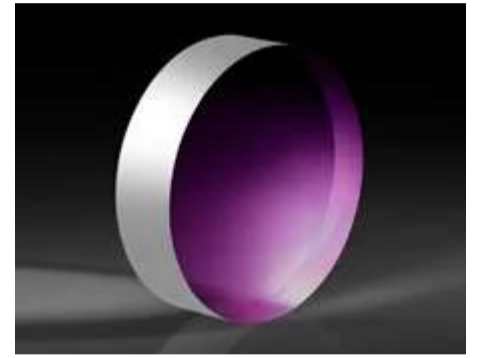
#85-556 - M23.2 Retaining Ring Pair for 20mm Diameter Optics
₹3,709

Qty



#89-295 - Mounting Clamp for 2 - 8X Research-Grade Variable Beam Expander
₹16,537

Qty



#37-073 - 75mm Dia., 4mm Thick, NIR I Coated $\lambda/4$ N-BK7 Window
₹24,113

Qty

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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