

[See all 109 Products in Family](#)

**TECHSPEC® 12.5mm Dia, 0.50 Numerical Aperture NIR Coated, Aspheric Lens**



Stock **#69-863** **6 In Stock**

[Other Coating Options](#)

- 1 + MRP ₹25,122

Price inclusive of all taxes

**ADD TO CART**

Volume Pricing	
Qty 1-5	₹25,122 each
Qty 6-25	₹22,599 each
Qty 26-49	₹21,087 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Aspheric Lens **Type:**

**Physical & Mechanical Properties**

12.50 +0.0/-0.1 **Diameter (mm):**

**Centering (arcmin):**

≤5

11.25 Clear Aperture CA (mm):

2.11 Edge Thickness ET (mm):

5.00 ±0.1 Center Thickness CT (mm):

Protective as needed Bevel:

Plano Shape of Back Surface:

## Optical Properties

12.50 @ 587.6nm Effective Focal Length EFL (mm):

0.50 Numerical Aperture NA:

9.35 Back Focal Length BFL (mm):

L-BAL35 Substrate: □

587.6 Aspheric Design Wavelength (nm):

1.2λ Asphere Figure Error, RMS @ 632.8nm:

BBAR (600-1050nm) Coating:

R<sub>avg</sub> ≤1.5% @ 600 - 1050nm Coating Specification:

60-40 Surface Quality:

1.00 f#:

61.15 Abbe Number (v<sub>d</sub>):

1.589 Index of Refraction (n<sub>d</sub>):

600 - 1050 Wavelength Range (nm):

Infinite Conjugate Distance:

587.6 Focal Length Specification Wavelength (nm):

80.00 Power (diopters):

## Material Properties

6.6 Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):

## Regulatory Compliance

Compliant RoHS 2015:

View Certificate of Conformance:

Compliant Reach 235:

Singapore Country of Origin:

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. MS 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



## Compatible Mounts

;