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TECHSPEC® 15mm Dia., 0.50 NA, V-Coated 1550nm NIR Aspheric Lens

Stock **#22-936** **9 In Stock**

Other Coating Options

- 1 +

C$530.60

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Volume Pricing	
Qty 1-5	**C$530.60** each
Qty 6-10	**C$477.40** each
Qty 11-25	**C$445.20** each
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Product Downloads

General

Type:

Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):

15.00 +0.0/-0.025

Centering (arcmin):

<3

Clear Aperture CA (mm):
13.5

Edge Thickness ET (mm):
2.45

Center Thickness CT (mm):
5.00 ±0.1

Bevel:
Protective as needed

Shape of Back Surface:
Plano

Optical Properties

Effective Focal Length EFL (mm):
15.00 @ 1550nm

Numerical Aperture NA:
0.5

Back Focal Length BFL (mm):
11.44 @ 587.6nm

Substrate:
N-SF6

Aspheric Design Wavelength (nm):
1550

Coating:
1550nm V-Coat

Coating Specification:
R_{abs} < 0.25% @ 1550nm @ 0° AOI

Surface Quality:
40-20

f/#:
1

Conjugate Distance:
Infinite

Damage Threshold, By Design:
5 J/cm^2 @ 1550nm, 10ns

Asphere Figure Error, @ 632.8nm:
0.4λ RMS and 2λ PV

Power (diopters):
66.67

Environmental & Durability Factors

Durability:
ADHESION AND ABRASION AS PER MIL-PRF13830B APP C, PARA C.3.8.4 AND C.3.8.5

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 235:
Compliant

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.

Product Details

- Designed at 1550nm
- Precision Grade Aspheric Surface
- Uncoated and <0.25% Reflectance V-Coat Options

TECHSPEC® 1550nm Precision Near-Infrared (NIR) Aspheric Lenses are designed at 1550nm to eliminate spherical aberration in the near-infrared. 1550nm lasers are commonly used in telecom, LiDAR, and other applications requiring eye-safe design features. Manufactured from S-TIH6 or N-SF6 substrates and polished through a computer numerical controlled (CNC) process, these aspheric lenses achieve high precision performance across the NIR spectrum. Featuring a 0.4λ RMS aspheric figure error, these lenses are ideal for applications that require spherical aberration correction, including imaging and laser focusing applications. TECHSPEC® 1550nm Precision Near-Infrared (NIR) Aspheric Lenses are available with low numerical aperture designs for applications that require beam shape to be maintained as well as high numerical aperture designs for light-gathering applications. For custom designed CNC polished aspheric lenses, please contact us.

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