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TECHSPEC® 15mm Dia., 0.50 NA, Uncoated 1550nm NIR Aspheric Lens



Stock #17-416 **14 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ C\$488⁰⁰

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Volume Pricing	
Qty 1-5	C\$488.60 each
Qty 6-10	C\$439.60 each
Qty 11-25	C\$410.20 each
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General

Aspheric Lens **Type:**

Physical & Mechanical Properties

15.00 +0.0/-0.025 **Diameter (mm):**

<3 **Centering (arcmin):**

13.5	Clear Aperture CA (mm):
2.45	Edge Thickness ET (mm):
5.00 ±0.1	Center Thickness CT (mm):
Protective as needed	Bevel:
Plano	Shape of Back Surface:

Optical Properties

15.00 @ 1550nm	Effective Focal Length EFL (mm):
0.50	Numerical Aperture NA:
11.44 @ 587.6nm	Back Focal Length BFL (mm):
N-SF6	Substrate: <input type="checkbox"/>
1550	Aspheric Design Wavelength (nm):
Uncoated	Coating:
40-20	Surface Quality:
1	f#:
1550	Design Wavelength DWL (nm):
Infinite	Conjugate Distance:
0.4λ RMS and 2λ PV	Asphere Figure Error, @ 632.8nm:
66.67	Power (diopters):

Regulatory Compliance

View	Certificate of Conformance:
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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

- 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.

Compatible Mounts