

TECHSPEC[®] 25mm Dia., 0.83 NA, Uncoated 1550nm NIR Aspheric Lens



Stock **#17-418** 8 In Stock

☐ [Other Coating Options](#)

-

1

+

£375⁻²⁰

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Volume Pricing	
Qty 1-5	£375.20 each
Qty 6-10	£337.60 each
Qty 11-25	£315.20 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Aspheric Lens

Type:

Physical & Mechanical Properties

25.00 +0.0/-0.025

Diameter (mm):

<2.5	Centering (arcmin):
22.5	Clear Aperture CA (mm):
2.35	Edge Thickness ET (mm):
10.00 ±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):
0.83	Numerical Aperture NA:
8.67 @ 587.6nm	Back Focal Length BFL (mm):
N-SF6	Substrate: □
1550	Aspheric Design Wavelength (nm):
Uncoated	Coating:
40-20	Surface Quality:
0.6	f/#:
Infinite	Conjugate Distance:
0.4λ RMS and 2λ PV	Asphere Figure Error, @ 632.8nm:
66.67	Power (diopters):
Regulatory Compliance	
View	Certificate of Conformance:

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.

Compatible Mounts