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TECHSPEC® 15mm Dia., 0.50 NA, BBAR Coated 1550nm SWIR+ Aspheric Lens

Stock **#29-986** **8 In Stock**

Other Coating Options

- 1 + **€379**.00

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Volume Pricing	
Qty 1-5	**€379,00** each
Qty 6-10	**€341,00** each
Qty 11-25	**€318,00** each
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Prices shown are exclusive of VAT/local taxes

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:
0.50

Back Focal Length BFL (mm):
11.44

Substrate:
N-SF6

Aspheric Design Wavelength (nm):
1550

Coating:
SWIR+

Coating Specification:
R_{avg} <0.5% @ 900 - 1700nm @ ±30° AOI
R_{abs} <1.5% @ 900 - 1700nm @ ±30° AOI

Surface Quality:
40-20

f/#:
1

Conjugate Distance:
Infinite

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

Power (diopters):
66.67

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 250:
Compliant

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.

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