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TECHSPEC® 10mm Dia., 0.63 NA, 600-1050nm Coated, NIR Aspheric Lens

TECHSPEC® Near-Infrared (NIR) Aspheric Lenses

Stock **#16-278** **20+ In Stock**

Other Coating Options

- 1 + **£167.20**

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Volume Pricing	
Qty 1-5	**£167.20** each
Qty 6-10	**£150.40** each
Qty 11-25	**£140.80** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):

10.00 +0.00/-0.10

Centering (arcmin):
<3

Clear Aperture CA (mm):
9

Edge Thickness ET (mm):
1.57

Center Thickness CT (mm):
3.70 ±0.10

Bevel:
Protective as needed

Shape of Back Surface:
Plano

Optical Properties

Effective Focal Length EFL (mm):
8.00 @ 780nm

Numerical Aperture NA:
0.63

Back Focal Length BFL (mm):
5.92

Substrate:
S-LAH64

Aspheric Design Wavelength (nm):
780

Asphere Figure Error, RMS @ 632.8nm:
1.2λ

Coating:
NIR+ (600-1050nm)

Coating Specification:
R_{avg} < 0.5% @ 600 - 1050nm @ 0° ±30° AOI
R_{abs} < 1.5% @ 600 - 1050nm @ 0° ±30° AOI

Surface Quality:
40-20

f/#:
0.80

Abbe Number (v_d):
47.37

Index of Refraction (n_d):
1.788

Wavelength Range (nm):
600 - 1050

Conjugate Distance:
Infinite

Power (diopters):
125.00

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
6.1

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 251:
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

- Optimized for Applications in the NIR
- Uncoated or AR coated versions available

- Multiple Design Wavelengths Available

TECHSPEC® Near-Infrared (NIR) Aspheric Lenses are optimized to eliminate spherical aberration in the near-infrared. Manufactured from S-LAH64 or N-BK7 substrates and polished through a computer numerical controlled (CNC) process, these aspheric lenses achieve high precision performance across the NIR spectrum. These NIR aspheric lenses include uncoated substrates designed at 780nm with coating options at 350-700nm, 600-1050nm, or 900-1700nm. TECHSPEC® 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

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