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TECHSPEC® 12mm Dia. x 25mm FL, NIR II Coated, Achromatic Lens



Stock **#45-793** [CONTACT US](#)

1 **£96⁰⁰**

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Volume Pricing

Qty 1-5	£96.00 each
Qty 6-25	£76.80 each
Qty 26-49	£72.40 each
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! Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Achromatic Lens **Type:**

Physical & Mechanical Properties

Diameter (mm):

12.00 +0.0/-0.025	
11.00	Clear Aperture CA (mm):
<1	Centering (arcmin):
7.00 ±0.10	Center Thickness CT (mm):
4.50 ±0.05	Center Thickness CT 1 (mm):
2.50 ±0.05	Center Thickness CT 2 (mm):
5.58	Edge Thickness ET (mm):
Protective as needed	Bevel:

Optical Properties

25.00	Effective Focal Length EFL (mm):
±1	Focal Length Tolerance (%):
21.05	Back Focal Length BFL (mm):
880.00	Focal Length Specification Wavelength (nm):
15.56	Radius R ₁ (mm):
-13.75	Radius R ₂ (mm):
-84.13	Radius R ₃ (mm):
N-LAK22 / N-SF6	Substrate: <input type="checkbox"/>
40-20	Surface Quality:
2.08	f#:
0.24	Numerical Aperture NA:
NIR II (750-1550nm)	Coating:
R _{abs} ≤1.5% @ 750 - 800nm R _{abs} ≤1.0% @ 800 - 1550nm R _{avg} ≤0.7% @ 750 - 1550nm	Coating Specification:
1.5λ	Power (P-V) @ 632.8nm:
M4	Irregularity (P-V) @ 632.8nm:
750 - 1550	Wavelength Range (nm):

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

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 to Give Increased Resolution and Smaller Spot Sizes for NIR Wavelengths (750-1100nm)
- Decreased Spherical Aberration for Monochromatic Sources Out to $2\mu\text{m}$
- Broadband AR Coating has $<1\%$ Reflectivity Between 750–1550nm

TECHSPEC® Near-IR (NIR) Achromatic Lenses are designed to provide the smallest spot size possible for polychromatic light between 750 and 1100nm. By utilizing our NIR doublets instead of standard doublets designed for the visible, the RMS spot diameter can be reduced from $43\mu\text{m}$ to $22.5\mu\text{m}$, for example, when using polychromatic light. Spot size will be smaller when focusing on monochromatic sources. TECHSPEC Near-IR (NIR) Achromatic Lenses also reduce spherical aberration and perform superior when used with a monochromatic source up to $2\mu\text{m}$ in wavelength. Typical applications for these doublets include imaging lenses for the near infrared, focusing and expanding of NIR lasers, and focusing/collimating lenses for fiber optics and NIR LEDs.

Technical Information



Compatible Mounts

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