

TECHSPEC<sup>®</sup> 25mm Dia. x 85mm FL, VIS 0° Coated, Achromatic Lens



Stock **#47-640** 20+ In Stock

☐ [Other Coating Options](#)

-

1

+

£99<sup>.81</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £99.81 each                   |
| Qty 6-25       | £79.67 each                   |
| Qty 26-49      | £75.29 each                   |
| Need More?     | <a href="#">Request Quote</a> |

Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| Achromatic Lens                      | Type:                                       |
| Physical & Mechanical Properties     |                                             |
| 25.00 +0.0/-0.025                    | Diameter (mm):                              |
| 24.00                                | Clear Aperture CA (mm):                     |
| <1                                   | Centering (arcmin):                         |
| 8.01 ±0.20                           | Center Thickness CT (mm):                   |
| 5.01 ±0.10                           | Center Thickness CT 1 (mm):                 |
| 3.00 ±0.10                           | Center Thickness CT 2 (mm):                 |
| 6.05                                 | Edge Thickness ET (mm):                     |
| Protective as needed                 | Bevel:                                      |
| Optical Properties                   |                                             |
| 85.00                                | Effective Focal Length EFL (mm):            |
| ±1                                   | Focal Length Tolerance (%):                 |
| 81.21                                | Back Focal Length BFL (mm):                 |
| 587.6                                | Focal Length Specification Wavelength (nm): |
| 55.68                                | Radius R <sub>1</sub> (mm):                 |
| -38.37                               | Radius R <sub>2</sub> (mm):                 |
| -146.45                              | Radius R <sub>3</sub> (mm):                 |
| N-SK11 / N-SF5                       | Substrate: <input type="text"/>             |
| 40-20                                | Surface Quality:                            |
| 3.4                                  | f/#:                                        |
| 0.15                                 | Numerical Aperture NA:                      |
| VS 0° (425-675nm)                    | Coating:                                    |
| R <sub>avg</sub> ≤0.4% @ 425 - 675nm | Coating Specification:                      |
| 1.5λ                                 | Power (P-V) @ 632.8nm:                      |
| λ/4                                  | Irregularity (P-V) @ 632.8nm:               |
| 425 - 675                            | Wavelength Range (nm):                      |
| Regulatory Compliance                |                                             |
| Compliant                            | RoHS 2015:                                  |
| Compliant                            | Reach 219:                                  |
| View                                 | Certificate of Conformance:                 |

## PRODUCT DETAILS

- Designed for 0° Angle of Incidence
- Less Than 0.4% Reflectance Per Surface from 425 - 675nm
- MgF<sub>2</sub> and VIS-NIR Coated Achromats Also Available

TECHSPEC® VIS 0° Coated Achromatic Lenses consist of two optical components cemented together to form an achromatic doublet. The doublet is computer optimized to correct for on-axis spherical and chromatic aberrations. Achromatic lenses are best for applications involving multi-color (white light) imaging due to their specific doublet lens pairing that enables them to correct the color separation inherent in glass. TECHSPEC® VIS 0° Coated Achromatic Lenses provide optimized transmission for 425 – 675nm, reducing average reflection to 0.4%. MgF<sub>2</sub> and VIS-NIR Coated Achromats are also available on our website.

## TECHNICAL INFORMATION



## COATING CURVES

## 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](#).

## COMPATIBLE MOUNTS