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TECHSPEC<sup>®</sup> 3mm Dia. x 4.5mm FL, VIS 0° Coated, Achromatic Lens



Stock **#49-270** 20+ In Stock

☐ [Other Coating Options](#)

-

1

+

₹9,420

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | ₹9,420 each                   |
| Qty 6-25       | ₹7,551 each                   |
| Qty 26-49      | ₹7,084 each                   |
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Product Downloads

General

Type:

Achromatic Lens

Physical & Mechanical Properties

Diameter (mm):

3.00 +0.0/-0.025

|                      |                             |
|----------------------|-----------------------------|
| 2.7                  | Clear Aperture CA (mm):     |
|                      |                             |
| 30-45                | Centering (arcmin):         |
|                      |                             |
| 3.00 ±0.10           | Center Thickness CT (mm):   |
|                      |                             |
| 2.00 ±0.05           | Center Thickness CT 1 (mm): |
|                      |                             |
| 1.00 ±0.05           | Center Thickness CT 2 (mm): |
|                      |                             |
| 2.48                 | Edge Thickness ET (mm):     |
|                      |                             |
| Protective as needed | Bevel:                      |

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| Optical Properties                   |                                             |
| 4.50                                 | Effective Focal Length EFL (mm):            |
|                                      |                                             |
| ±1                                   | Focal Length Tolerance (%):                 |
|                                      |                                             |
| 2.99                                 | Back Focal Length BFL (mm):                 |
|                                      |                                             |
| 587.6                                | Focal Length Specification Wavelength (nm): |
|                                      |                                             |
| 3.16                                 | Radius R <sub>1</sub> (mm):                 |
|                                      |                                             |
| -2.23                                | Radius R <sub>2</sub> (mm):                 |
|                                      |                                             |
| -7.88                                | Radius R <sub>3</sub> (mm):                 |
|                                      |                                             |
| N-LAK22 / N-SF6                      | Substrate: □                                |
|                                      |                                             |
| 20-10                                | Surface Quality:                            |
|                                      |                                             |
| 1.5                                  | f##:                                        |
|                                      |                                             |
| 0.33                                 | Numerical Aperture NA:                      |
|                                      |                                             |
| VIS 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                           | Reach 181:                  |
|                                     |                             |
| Compliant                           | RoHS 2015:                  |
|                                     |                             |
| View                                | Certificate of Conformance: |
|                                     |                             |
| Japan                               | Country of Origin:          |
|                                     |                             |
| Edmund Optics India Private Limited | Imported By:                |

## 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

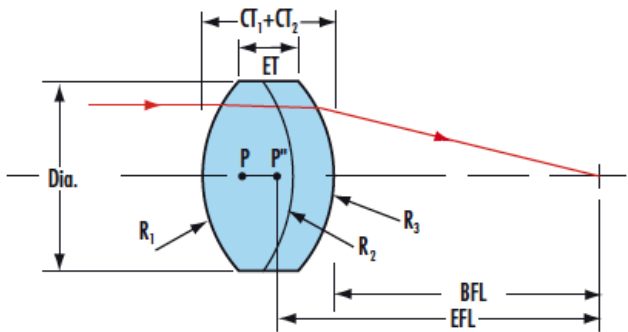
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

- Designed 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

## Compatible Mounts