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TECHSPEC®

15mm Dia x 18.75mm FL, SWIR+, High Precision Aspheric Lens



TECHSPEC® High Precision Aspheric Lenses

Stock **#22-897** **5 In Stock**

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-

1

+

£559<sup>20</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £559.20 each                  |
| Qty 6-10       | £503.20 each                  |
| Qty 11+        | £469.60 each                  |
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Aspheric Lens

Type:

3D Surface Profile not included with coated lenses

Note:

Physical & Mechanical Properties

|                                                                                                      |                                      |
|------------------------------------------------------------------------------------------------------|--------------------------------------|
| 15.00 +0.00/-0.025                                                                                   | Diameter (mm):                       |
| <1                                                                                                   | Centering (arcmin):                  |
| 13.50                                                                                                | Clear Aperture CA (mm):              |
| 6.10                                                                                                 | Edge Thickness ET (mm):              |
| 8.00                                                                                                 | Center Thickness CT (mm):            |
| Protective as needed                                                                                 | Bevel:                               |
| Plano                                                                                                | Shape of Back Surface:               |
| Optical Properties                                                                                   |                                      |
| 18.75 @ 587.6nm                                                                                      | Effective Focal Length EFL (mm):     |
| 0.40                                                                                                 | Numerical Aperture NA:               |
| 14.32                                                                                                | Back Focal Length BFL (mm):          |
| N-SF6                                                                                                | Substrate: □                         |
| 587.6                                                                                                | Aspheric Design Wavelength (nm):     |
| λ/40                                                                                                 | Asphere Figure Error, RMS @ 632.8nm: |
| SWIR+ (900-1700nm)                                                                                   | Coating:                             |
| R <sub>avg</sub> <0.5% @ 900 - 1700nm @ ±30° AOI<br>R <sub>abs</sub> <1.5% @ 900 - 1700nm @ ±30° AOI | Coating Specification:               |
| 40-20                                                                                                | Surface Quality:                     |
| 1.25                                                                                                 | f/#:                                 |
| 900 - 1700                                                                                           | Wavelength Range (nm):               |
| Infinite                                                                                             | Conjugate Distance:                  |
| 53.33                                                                                                | Power (diopters):                    |
| Regulatory Compliance                                                                                |                                      |
| Compliant                                                                                            | RoHS 2015:                           |
| View                                                                                                 | Certificate of Conformance:          |
| Compliant                                                                                            | Reach 250:                           |

## Product Details

- High Precision Aspheric Surface
- 3D Surface Profiles Included with Uncoated Lenses
- Uncoated and <0.25% Reflectance V-Coat Available

TECHSPEC® High Precision Aspheric Lenses guarantee better than λ/40 wave aspheric figure error. Achieved via precision magneto-rheological finishing (MRF), these aspheres offer high numerical apertures with diameters ranging from 15 to 50mm and are ideal for a variety of imaging and low light level applications. Each TECHSPEC High Precision Aspheric Lens is individually measured. 3D surface profiles are included with uncoated lenses. For diffraction-limited aspheres designed at specific Nd:YAG laser wavelengths, see our [TECHSPEC High Precision Laser Grade Aspheric Lenses](#).

## 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](#).

