

TECHSPEC<sup>®</sup> 40mm Dia x 40mm FL, SWIR+, High Precision Aspheric Lens



TECHSPEC<sup>®</sup> High Precision Aspheric Lenses

Stock **#22-901** **20+ In Stock**

[Other Coating Options](#)

-

1

+

S\$1,433<sup>76</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | S\$1,433.76 each              |
| Qty 6-25       | S\$1,150.00 each              |
| Qty 26-49      | S\$1,082.79 each              |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

SPECIFICATIONS

General

Aspheric Lens

Type:

Note:

3D Surface Profile not included with coated lenses

| Physical & Mechanical Properties |                           |
|----------------------------------|---------------------------|
| 40.00 +0.00/-0.025               | Diameter (mm):            |
| <1                               | Centering (arcmin):       |
| 36.00                            | Clear Aperture CA (mm):   |
| 6.83                             | Edge Thickness ET (mm):   |
| 14.70                            | Center Thickness CT (mm): |
| Protective as needed             | Bevel:                    |
| Plano                            | Shape of Back Surface:    |

| Optical Properties                                                                                   |                                      |
|------------------------------------------------------------------------------------------------------|--------------------------------------|
| 40.00 @ 587.6nm                                                                                      | Effective Focal Length EFL (mm):     |
| 0.50                                                                                                 | Numerical Aperture NA:               |
| 31.21                                                                                                | Back Focal Length BFL (mm):          |
| N-SF5                                                                                                | Substrate: □                         |
| 587.6                                                                                                | Aspheric Design Wavelength (nm):     |
| λ40                                                                                                  | Asphere Figure Error, RMS @ 632.8nm: |
| SWMR+ (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                                                                                                    | f/#:                                 |
| 900 - 1700                                                                                           | Wavelength Range (nm):               |
| Infinite                                                                                             | Conjugate Distance:                  |
| 25.00                                                                                                | 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

