

TECHSPEC<sup>®</sup> 25mm Dia., 0.83 NA, V-Coated 1550nm NIR Aspheric Lens



Stock **#22-938** 14 In Stock

☐ [Other Coating Options](#)

-

1

+

S\$698<sup>.60</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | S\$698.60 each                |
| Qty 6-10       | S\$628.60 each                |
| Qty 11-25      | S\$586.60 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                          |                     |
|----------------------------------|---------------------|
| Aspheric Lens                    | Type:               |
| Physical & Mechanical Properties |                     |
| 25.00 +0.0/-0.025                | Diameter (mm):      |
| <2.5                             | Centering (arcmin): |

|                      |                           |
|----------------------|---------------------------|
| 22.5                 | Clear Aperture CA (mm):   |
| 2.35                 | Edge Thickness ET (mm):   |
| 10.00 ±0.1           | Center Thickness CT (mm): |
| Protective as needed | Bevel:                    |
| Plano                | Shape of Back Surface:    |

Optical Properties

|                                            |                                          |
|--------------------------------------------|------------------------------------------|
| 15.00 @ 1550nm                             | Effective Focal Length EFL (mm):         |
| 0.83                                       | Numerical Aperture NA:                   |
| 8.67 @ 587.6nm                             | Back Focal Length BFL (mm):              |
| N-SF6                                      | Substrate: <div></div>                   |
| 1550                                       | Aspheric Design Wavelength (nm):         |
| 1550nm V-Coat                              | Coating:                                 |
| R <sub>abs</sub> < 0.25% @ 1550nm @ 0° AOI | Coating Specification:                   |
| 40-20                                      | Surface Quality:                         |
| 0.6                                        | f/#:                                     |
| Infinite                                   | Conjugate Distance:                      |
| 5 J/cm² @ 1550nm, 10ns                     | Damage Threshold, By Design: <div></div> |
| 0.4λ RMS and 2λ PV                         | Asphere Figure Error, @ 632.8nm:         |

|       |                   |
|-------|-------------------|
| 66.67 | Power (diopters): |
|-------|-------------------|

Environmental & Durability Factors

|                                                                           |             |
|---------------------------------------------------------------------------|-------------|
| ADHESION AND ABRASION AS PER MIL-PRF13830B APP C, PARAC.3.8.4 AND C.3.8.5 | Durability: |
|---------------------------------------------------------------------------|-------------|

Regulatory Compliance

|           |                             |
|-----------|-----------------------------|
| Compliant | RoHS 2015:                  |
| View      | Certificate of Conformance: |
| Compliant | Reach 235:                  |

## Product Details

- Designed at 1550nm
- Precision Grade Aspheric Surface
- Uncoated and <0.25% Reflectance V-Coat Options

TECHSPEC® 1550nm Precision Near-Infrared (NIR) Aspheric Lenses are designed at 1550nm to eliminate spherical aberration in the near-infrared. 1550nm lasers are commonly used in telecom, LiDAR, and other applications requiring eye-safe design features. Manufactured from S-TiH6 or N-SF6 substrates and polished through a computer numerical controlled (CNC) process, these aspheric lenses achieve high precision performance across the NIR spectrum. Featuring a 0.4λ RMS aspheric figure error, these lenses are ideal for applications that require spherical aberration correction, including imaging and laser focusing applications. TECHSPEC® 1550nm Precision Near-Infrared (NIR) Aspheric Lenses are available with low numerical aperture designs for applications that require beam shape to be maintained as well as high numerical aperture designs for light-gathering applications. For custom designed CNC polished aspheric lenses, please contact us.

## 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](#).

