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**TECHSPEC® 25.4mm Dia. x 12.7mm FL, 8-12µm AR Coated, ZnSe Aspheric Lens**

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TECHSPEC Zinc Selenide (ZnSe) Aspheric Lenses

Stock **#39-510** **7 In Stock**

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⊖ 1 ⊕ **A\$2,152<sup>00</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1-10	<b>A\$2,152.00</b> each
Qty 11-25	<b>A\$1,944.00</b> each
Qty 26-49	<b>A\$1,832.00</b> each
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**General**

Aspheric Lens **Type:**

**Physical & Mechanical Properties**

25.40 +0.00/-0.10 **Diameter (mm):**

≤3	<b>Centering (arcmin):</b>
≤12.7	<b>Centering, ETD (μm):</b>
22.86	<b>Clear Aperture CA (mm):</b>
1.83	<b>Edge Thickness ET (mm):</b>
6.00 ±0.10	<b>Center Thickness CT (mm):</b>
Protective as needed	<b>Bevel:</b>
Plano	<b>Shape of Back Surface:</b>
<50 RMS	<b>Surface Roughness (□):</b>

## Optical Properties

12.70	<b>Effective Focal Length EFL (mm):</b>
1.00	<b>Numerical Aperture NA:</b>
10.21	<b>Back Focal Length BFL (mm):</b>
Coherent® Infrared ZnSe	<b>Substrate:</b> □
λ/2	<b>Asphere Figure Error, RMS @ 632.8nm:</b>
BBAR (8000-12000nm)	<b>Coating:</b>
R <sub>avg</sub> <0.5% @ 8 - 12μm	<b>Coating Specification:</b>
40-20	<b>Surface Quality:</b>
0.5	<b>f#:</b>
8000 - 12000	<b>Wavelength Range (nm):</b>
Infinite	<b>Conjugate Distance:</b>
λ/10	<b>Power (P-V) @ 632.8nm:</b>

## Electrical

λ/10	<b>Power (P-V) @ 10.6μm:</b>
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## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">Compliant</a>	<b>Reach 224:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>

## Product Details

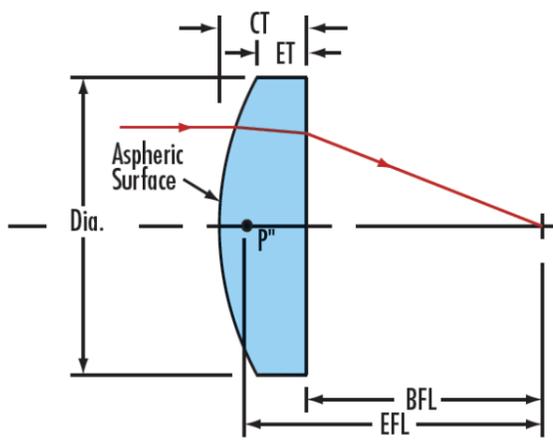
- Edmund Optics Designed, Coherent® Manufactured
- Premier Grade ZnSe Material
- Uncoated or Broadband 8-12μm AR Coating Available

TECHSPEC® Zinc Selenide (ZnSe) Aspheric Lenses are designed to provide diffraction-limited focusing performance for 10.6μm CO<sub>2</sub> lasers. Manufactured from Coherent® Infrared ZnSe material featuring <0.0005 cm<sup>-1</sup> bulk absorption at 10.6μm, these lenses are available uncoated or with a broadband anti-reflection coating providing superior transmission from 8 - 12μm. The precision designs are ideal for integration into laser systems, thermal imaging assemblies, and FTIR devices. TECHSPEC Zinc Selenide Aspheric Lenses feature an irregularity of <λ/20 at 10.6μm, 40-20 surface quality, and <50Å surface roughness.

**Notes:** II-VI Incorporated is now Coherent Corp.

Special care should be taken when handling Zinc Selenide as it is a toxic material. Always wear rubber or plastic gloves to avoid risk of contamination.

## Technical Information



## Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools

## 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