

[See all 51 Products in Family](#)

**TECHSPEC® 25.4mm Dia. x 150mm FL, 3-12µm BBAR Coated, ZnSe Plano-Convex Lens**

See More by [Coherent®](#)



TECHSPEC Zinc Selenide (ZnSe) Plano-Convex (PCX) Lenses

Stock **#11-428** **6 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ £444.<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-10	£444.00 each
Qty 11-25	£400.00 each
Qty 26-49	£315.20 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Plano-Convex Lens **Type:**

**Physical & Mechanical Properties**

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

≤12.7	<b>Centering, ETD (μm):</b>
2.70 ±0.10	<b>Center Thickness CT (mm):</b>
2.32	<b>Edge Thickness ET (mm):</b>
22.86	<b>Clear Aperture CA (mm):</b>
Protective as needed	<b>Bevel:</b>
<50 RMS	<b>Surface Roughness (□):</b>
<b>Optical Properties</b>	
150.00 @ 10.6μm	<b>Effective Focal Length EFL (mm):</b>
148.88	<b>Back Focal Length BFL (mm):</b>
BBAR (3000-12000nm)	<b>Coating:</b>
R <sub>avg</sub> ≤3.0% @ 3 - 12μm	<b>Coating Specification:</b>
Coherent® Infrared ZnSe	<b>Substrate:</b> □
40-20	<b>Surface Quality:</b>
λ	<b>Power (P-V) @ 632.8nm:</b>
λ/20	<b>Irregularity (P-V) @ 10.6μm:</b>
210.40	<b>Radius R<sub>1</sub> (mm):</b>
5.91	<b>f#:</b>
0.08	<b>Numerical Aperture NA:</b>
3000 - 12000	<b>Wavelength Range (nm):</b>
<0.0005 @ 10.6μm	<b>Bulk Absorption Coefficient (cm<sup>-1</sup>):</b>

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

<b>Regulatory Compliance</b>	
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 242:</b>

## Product Details

- Edmund Optics® Designed, Coherent® Manufactured
- Premier Grade ZnSe Material
- Uncoated or Broadband AR Coating Options

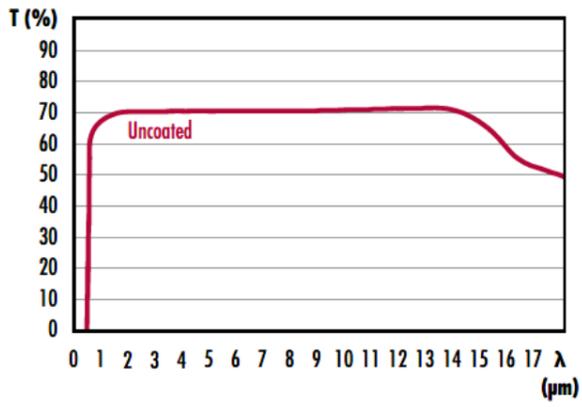
TECHSPEC® Zinc Selenide (ZnSe) Plano-Convex (PCX) Lenses are designed for focusing or collimation applications in the mid-wave and longwave infrared spectrum. Manufactured by Coherent®, these lenses feature Infrared ZnSe material with <0.0005cm<sup>-1</sup> bulk absorption at 10.6μm and are available uncoated or with a variety of broadband anti-reflection coating options. The 8-12μm coating is ideal for use with CO<sub>2</sub> lasers and thermal camera applications, whereas the dual band 3-12μm coating is ideal for hyperspectral applications. TECHSPEC® Zinc Selenide PCX Lenses feature an irregularity of <λ/20 at 10.6μm, 40-20 surface quality, and <50Å surface roughness. Three diameter options are available, with effective focal lengths ranging from 12.7mm to 250mm.

**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.

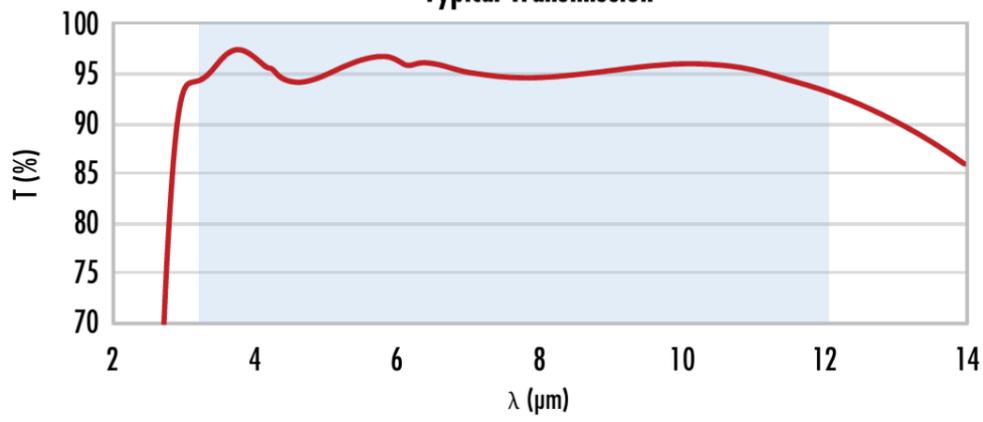
## Technical Information

**Uncoated – 6.3mm Thickness**



**AR COATED ZINC SELENIDE**

**ZnSe with 3-12μm AR Coating  
Typical Transmission**



Typical transmission of a ZnSe window with BBAR (3000-12000nm) coating at 0° AOI.

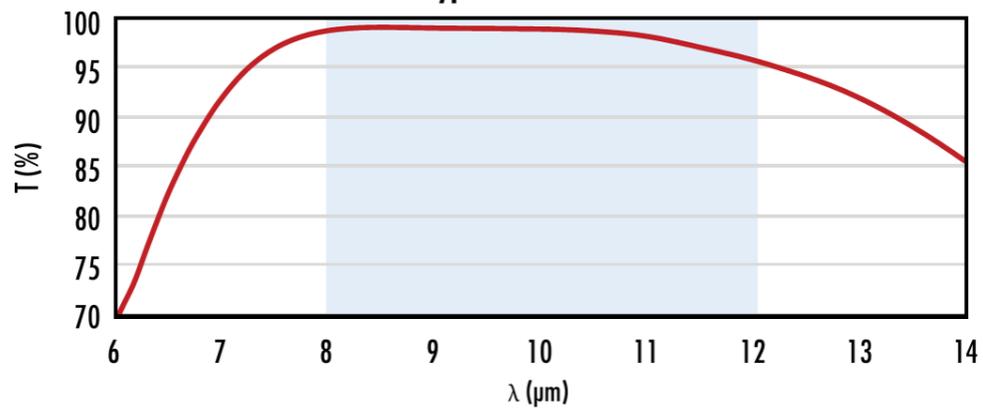
The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} < 5.0\% @ 3 - 12\mu m$$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

**ZnSe with 8-12μm AR Coating  
Typical Transmission**



Typical transmission of a ZnSe window with BBAR (8000-12000nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.5\% @ 8 - 12\mu m$$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

**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.



## 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

---