

TECHSPEC®

25.4mm Dia. x 35mm FL, Uncoated, ZnSe Plano-Convex Lens

See More by [Coherent®](#)



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

Stock #39-531 **7 In Stock** [Other Coating Options](#)

- 1 +

£285^{.60}

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Volume Pricing	
Qty 1-10	£285.60 each
Qty 11-25	£257.60 each
Qty 26-49	£203.20 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- PDF Drawing:pdf
- IGES:igs
- Zemax:zar
- Zemax:zmx
- eDrawing:eprt
- Code V:seq
- EO Spec Sheet
- [Download All](#)

General

Type: Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):	25.40 +0.00/-0.10	Centering, ETD (µm):	≤12.7
Center Thickness CT (mm):	3.70 ±0.10	Edge Thickness ET (mm):	2.03
Clear Aperture CA (mm):	22.86	Bevel:	Protective as needed
Surface Roughness (Å):	<50 RMS		

Optical Properties

Effective Focal Length EFL (mm):	35.00 @ 10.6µm	Back Focal Length BFL (mm):	33.46
Coating:	Uncoated	Substrate: ⓘ	Coherent® Infrared ZnSe
Surface Quality:	40-20	Power (P-V) @ 632.8nm:	λ
Irregularity (P-V) @ 10.6µm:	λ/20	Radius R₁ (mm):	49.10
f/#:	1.38	Numerical Aperture NA:	0.36

Wavelength Range (nm): 600 - 18000

Bulk Absorption Coefficient (cm⁻¹): <0.0005 @ 10.6μm

Electrical

Power (P-V) @ 10.6μm: λ/10

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

Reach 242: **Compliant**

Need different specs or modifications?

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](#).

Product Details

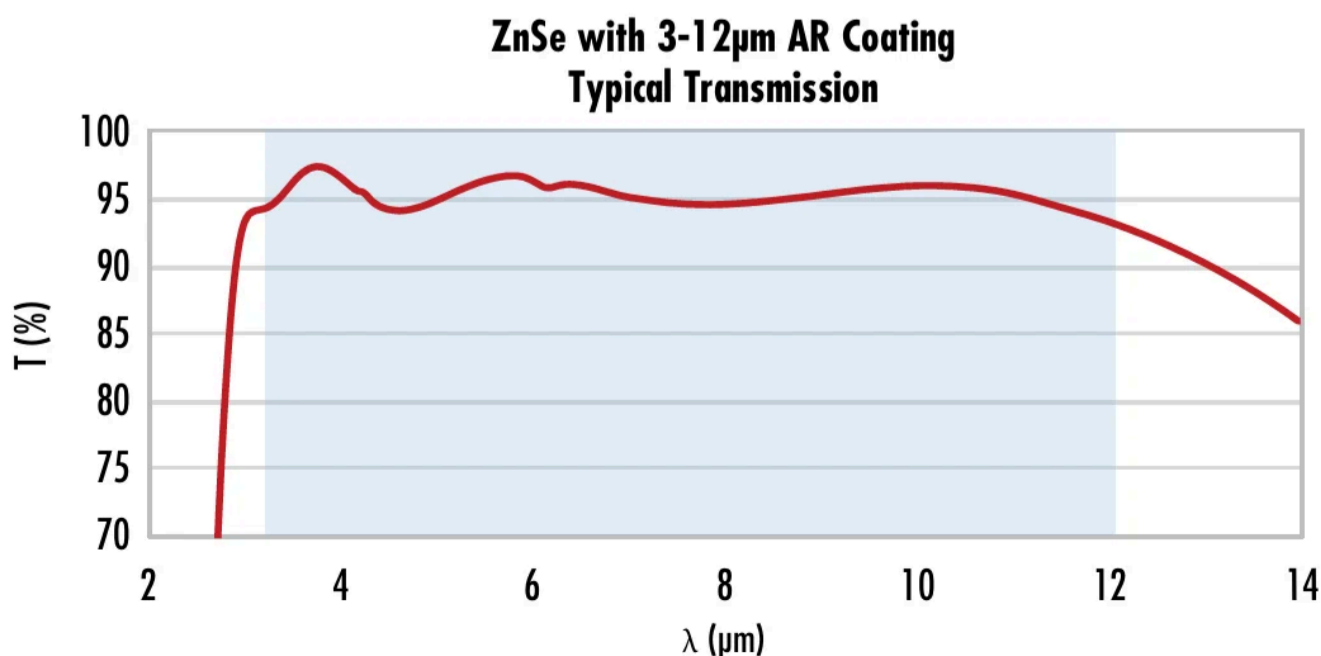
- Edmund Optics® Designed, Coherent® Manufactured
- Premier Grade ZnSe Material
- Uncoated or Broadband AR Coating Options

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 <math><0.0005\text{cm}^{-1}</math> 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 CO₂ 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 <math><\lambda/20</math> at 10.6μm, 40-20 surface quality, and <math><50\text{\AA}</math> 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



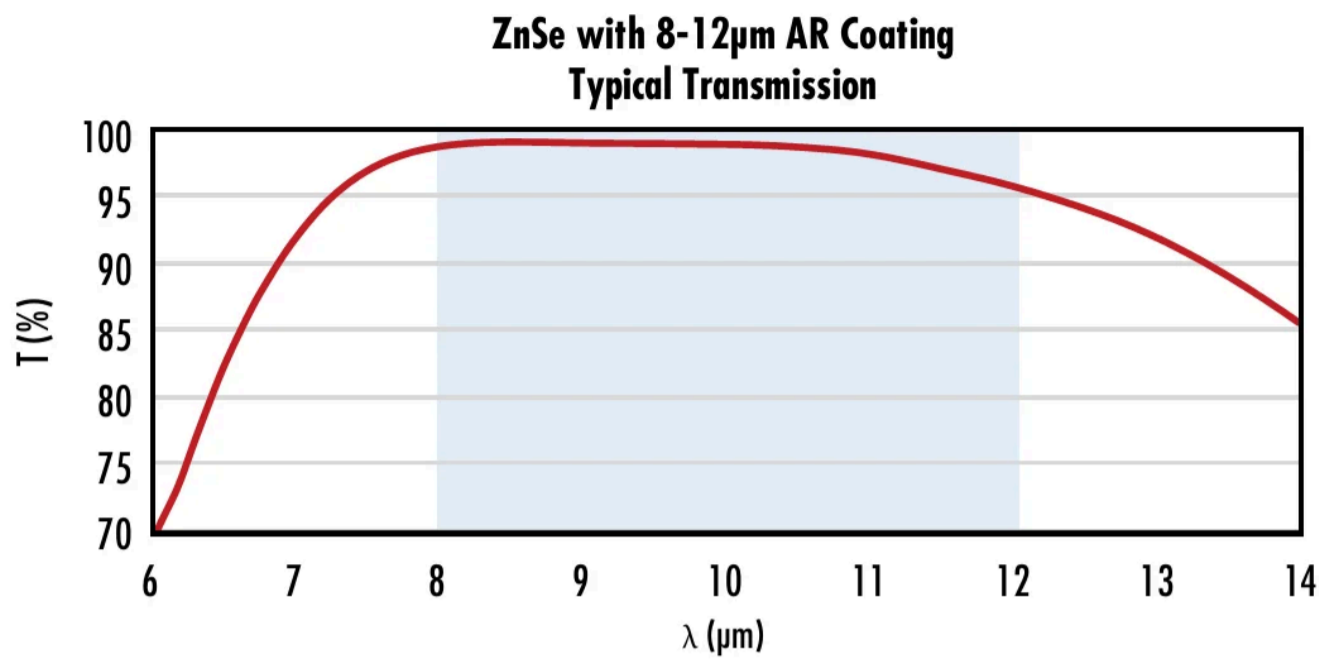
Typical transmission of a ZnSe window with BBAR (30 12000nm) coating at 0° AOI.

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

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

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

[Click Here to Download Data](#)



Typical transmission of a ZnSe window with BBAR (80-12000nm) coating at 0° AOI.

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

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

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.



Component Handling Tools

Related Products



Germanium (Ge) Plano-Convex (PCX) Lenses



Zinc Selenide (ZnSe) Aspheric Lenses



Infrared Optics



Zinc Selenide (ZnSe) Optics

Frequently Purchased Together



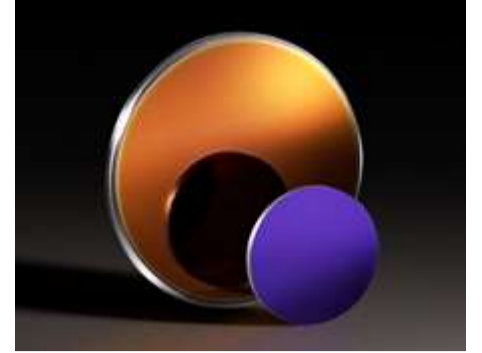
#53-042 - 22.5mm FL, C-Mount Focusing Assembly
£95.20



#54-628 - 5mm Length, C-Mount Extension Tube
£26.60



#54-629 - 10mm Length, C-Mount Extension Tube
£26.60



#68-654 - 3.60µm, 25mm Diameter, Infrared Longpass Filter
£588.00

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	25.0/25.4mm Optic Dia., SM1 Thin Mount, M4	Fixed		#13-787	£16.80 Request Quote	9 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., SM1 Thin Mount, 8-32	Fixed		#13-788	£16.80 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.4mm Optic Dia., 10mm Max Optic Thickness, Optic Mount	Fixed		#64-561	£26.20 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.4mm Optic Dia., 13mm Max Optic Thickness, Optic Mount	Fixed		#64-562	£26.20 Request Quote	20+ In Stock <input type="text" value="1"/>
	25mm Thick Inner Single Optic Mount	Fixed		#38-758	£32.80 Request Quote	7 In Stock <input type="text" value="1"/>
	25.4mm Inner Single Optic Mount	Fixed		#38-756	£32.80 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., L-Slot Direct Mount	Fixed		#36-410	£54.40 Request Quote	15 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., Side Flange Direct Mount	Fixed		#36-414	£56.80 Request Quote	20+ In Stock <input type="text" value="1"/>
	25/25.4mm Diameter, C-Mount Thin Optic Mount	Fixed		#56-353	£79.20 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-411	£81.60 Request Quote	5 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-956	£220.80 Request Quote	CONTACT US <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-959	£432.00 Request Quote	6 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-776	£604.00 Request Quote	2 In Stock <input type="text" value="1"/>

Resources

Media Type

- Application Note
- Scientific Paper
- Video
- Glossary
- Technical Tool
- FAQ
- Trending in Optics

APPLICATION NOTE

Anti-Reflection
(AR) Coatings

APPLICATION NOTE

An
Introduction to
Optical
Coatings

APPLICATION NOTE

Understanding
Optical
Specifications

APPLICATION NOTE

Lens Geometry
Performance
Comparison

APPLICATION NOTE

Advantages of
Using
Meniscus
Lenses in...

SCIENTIFIC PAPER

Advantages of
using
engineered
chalcogenide...

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