

[See all 51 Products in Family](#)

TECHSPEC[®] 25.4mm Dia. x 75mm FL, Uncoated, ZnSe Plano-Convex Lens

See More by [Coherent®](#)



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

Stock **#39-533** **5 In Stock**

[Other Coating Options](#)

-

1

+

₹22,966

ADD TO CART

Volume Pricing	
Qty 1-10	₹22,966 each
Qty 11-25	₹20,708 each
Qty 26-49	₹16,271 each
Need More?	Request Quote

Product Downloads

General

Type:
Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):
25.40 +0.00/-0.10

≤12.7	Centering, ETD (μm):
2.50 ±0.10	Center Thickness CT (mm):
1.73	Edge Thickness ET (mm):
22.86	Clear Aperture CA (mm):
Protective as needed	Bevel:
<50 RMS	Surface Roughness (□):

Optical Properties	
75.00 @ 10.6μm	Effective Focal Length EFL (mm):
73.96	Back Focal Length BFL (mm):
Uncoated	Coating:
Coherent® Infrared ZnSe	Substrate: □
40-20	Surface Quality:
λ	Power (P-V) @ 632.8nm:
λ/20	Irregularity (P-V) @ 10.6μm:
105.20	Radius R ₁ (mm):
2.95	f#:
0.17	Numerical Aperture NA:
600 - 18000	Wavelength Range (nm):
<0.0005 @ 10.6μm	Bulk Absorption Coefficient (cm ⁻¹):

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

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 242:
China	Country of Origin:
Edmund Optics India Private Limited	Imported By:

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](#).

Product Details

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

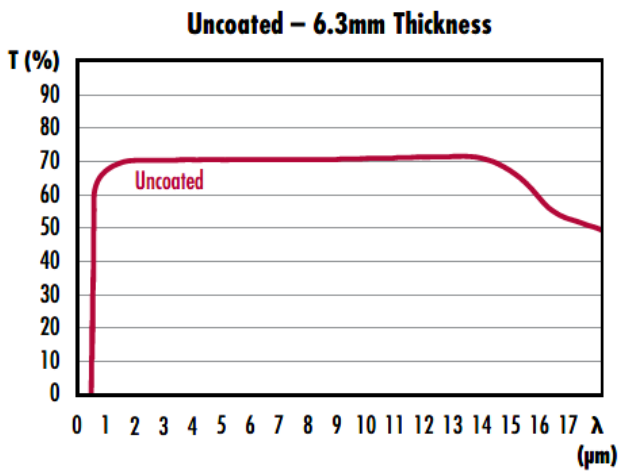
TECHSPEC® Zinc Selenide (ZnSe) Plano-Convex (PCX) Lenses are designed for focusing or collimation applications in the mid-wave and longwave infrared spectrum. Manufactured by Coherent®, these lenses feature Infrared ZnSe material with <0.0005cm⁻¹ bulk absorption at 10.6μm and are available uncoated or 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 <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: IL-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



AR COATED ZINC SELENIDE																					
ZnSe with 3-12μm AR Coating Typical Transmission <table border="1"><caption>Approximate data for ZnSe with 3-12μm AR Coating</caption><thead><tr><th>λ (μm)</th><th>T (%)</th></tr></thead><tbody><tr><td>2.5</td><td>70</td></tr><tr><td>3.0</td><td>95</td></tr><tr><td>4.0</td><td>97</td></tr><tr><td>5.0</td><td>94</td></tr><tr><td>6.0</td><td>96</td></tr><tr><td>8.0</td><td>95</td></tr><tr><td>10.0</td><td>96</td></tr><tr><td>12.0</td><td>93</td></tr><tr><td>14.0</td><td>86</td></tr></tbody></table>	λ (μm)	T (%)	2.5	70	3.0	95	4.0	97	5.0	94	6.0	96	8.0	95	10.0	96	12.0	93	14.0	86	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 - 12μm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
λ (μm)	T (%)																				
2.5	70																				
3.0	95																				
4.0	97																				
5.0	94																				
6.0	96																				
8.0	95																				
10.0	96																				
12.0	93																				
14.0	86																				
ZnSe with 8-12μm AR Coating Typical Transmission <table border="1"><caption>Approximate data for ZnSe with 8-12μm AR Coating</caption><thead><tr><th>λ (μm)</th><th>T (%)</th></tr></thead><tbody><tr><td>6.0</td><td>70</td></tr><tr><td>7.0</td><td>90</td></tr><tr><td>8.0</td><td>99</td></tr><tr><td>9.0</td><td>99</td></tr><tr><td>10.0</td><td>99</td></tr><tr><td>11.0</td><td>99</td></tr><tr><td>12.0</td><td>96</td></tr><tr><td>14.0</td><td>86</td></tr></tbody></table>	λ (μm)	T (%)	6.0	70	7.0	90	8.0	99	9.0	99	10.0	99	11.0	99	12.0	96	14.0	86	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 - 12μm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data		
λ (μm)	T (%)																				
6.0	70																				
7.0	90																				
8.0	99																				
9.0	99																				
10.0	99																				
11.0	99																				
12.0	96																				
14.0	86																				

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

Compatible Mounts