

TECHSPEC<sup>®</sup> 25.4mm Dia. x 50.8mm FL, Uncoated, ZnSe Aspheric Lens

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TECHSPEC Zinc Selenide (ZnSe) Aspheric Lenses

Stock **#39-495** **6 In Stock**

[Other Coating Options](#)

-

1

+

£908<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-10       | £908.00 each                  |
| Qty 11-25      | £824.00 each                  |
| Qty 26-49      | £776.00 each                  |
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Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Aspheric Lens                    | Type:                                |
| Physical & Mechanical Properties |                                      |
| 25.40 +0.00/-0.10                | Diameter (mm):                       |
| ≤3                               | Centering (arcmin):                  |
| ≤12.7                            | Centering, ETD (μm):                 |
| 22.86                            | Clear Aperture CA (mm):              |
| 2.38                             | Edge Thickness ET (mm):              |
| 3.50 ±0.10                       | Center Thickness CT (mm):            |
| Protective as needed             | Bevel:                               |
| Plano                            | Shape of Back Surface:               |
| <50 RMS                          | Surface Roughness (□):               |
| Optical Properties               |                                      |
| 50.80                            | Effective Focal Length EFL (mm):     |
| 0.25                             | Numerical Aperture NA:               |
| 49.35                            | Back Focal Length BFL (mm):          |
| Coherent® Infrared ZnSe          | Substrate: □                         |
| λ/2                              | Asphere Figure Error, RMS @ 632.8nm: |
| Uncoated                         | Coating:                             |
| 40-20                            | Surface Quality:                     |
| 2                                | f/#:                                 |
| 600 - 18000                      | Wavelength Range (nm):               |
| Infinite                         | Conjugate Distance:                  |
| λ/10                             | Power (P-V) @ 632.8nm:               |
| Electrical                       |                                      |
| λ/10                             | Power (P-V) @ 10.6μm:                |
| Regulatory Compliance            |                                      |
| Compliant                        | RoHS 2015:                           |
| Compliant                        | Reach 224:                           |
| View                             | Certificate of Conformance:          |

## PRODUCT DETAILS

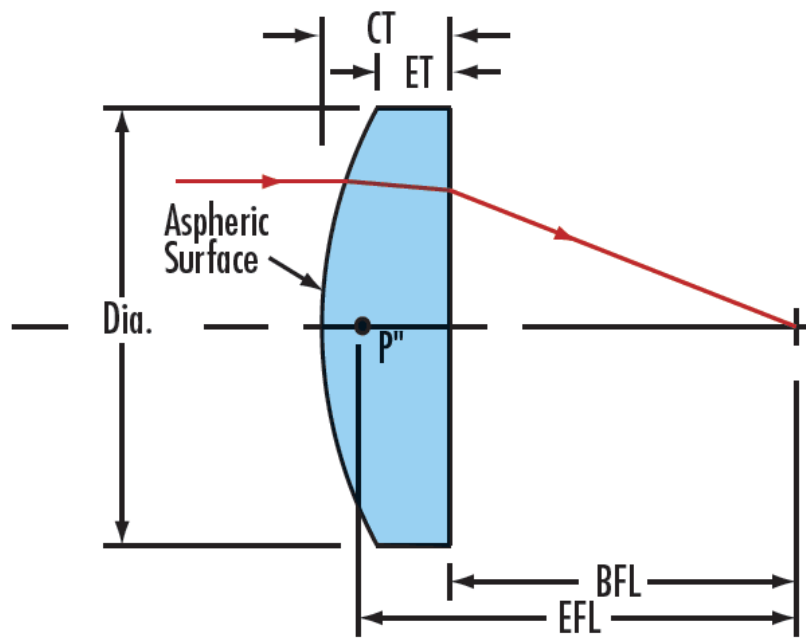
- Edmund Optics Designed, Coherent® Manufactured
- Premier Grade ZnSe Material
- Uncoated or Broadband 8-12μm AR Coating Available

TECHSPEC® Zinc Selenide (ZnSe) Aspheric Lenses are designed to provide diffraction-limited focusing performance for 10.6μm CO2 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