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TECHSPEC® 25.4mm Dia. x 15.0mm FL, 8-12µm AR Coated, ZnSe Aspheric Lens

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TECHSPEC Zinc Selenide (ZnSe) Aspheric Lenses

Stock **#39-514** **8 In Stock**

Other Coating Options

- 1 + **€1.320**,00

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Volume Pricing	
Qty 1-10	**€1.320,00** each
Qty 11-25	**€1.190,00** each
Qty 26-49	**€1.120,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):

25.40 +0.00/-0.10

Centering (arcmin):
≤3

Centering, ETD (µm):
≤12.7

Clear Aperture CA (mm):
22.86

Edge Thickness ET (mm):
1.89

Center Thickness CT (mm):
5.50 ±0.10

Bevel:
Protective as needed

Shape of Back Surface:
Plano

Surface Roughness (□):
<50 RMS

Optical Properties

Effective Focal Length EFL (mm):
15.00

Numerical Aperture NA:
0.85

Back Focal Length BFL (mm):
12.71

Substrate: □
Coherent® Infrared ZnSe

Asphere Figure Error, RMS @ 632.8nm:
λ/2

Coating:
BBAR (8000-12000nm)

Coating Specification:
R_{avg} <0.5% @ 8 - 12µm

Surface Quality:
40-20

f/#:
0.59

Index of Refraction (n_d):
2.631

Wavelength Range (nm):
8000 - 12000

Conjugate Distance:
Infinite

Power (P-V) @ 632.8nm:
λ/10

Electrical

Power (P-V) @ 10.6µm:
λ/10

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
7.57

Regulatory Compliance

RoHS 2015:
Compliant

Reach 224:
Compliant

Certificate of Conformance:
View

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

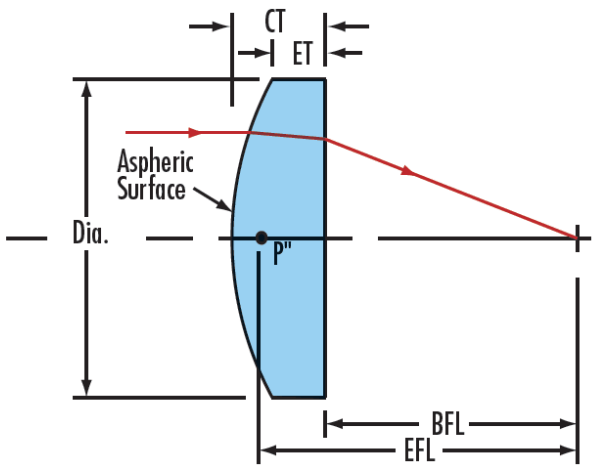
- Edmund Optics Designed, Coherent® Manufactured
- Premier Grade ZnSe Material
- Uncoated or Broadband 8-12µm AR Coating Available

TECHSPEC® Zinc Selenide (ZnSe) Aspheric Lenses are designed to provide diffraction-limited focusing performance for 10.6µm CO_2 lasers. Manufactured from Coherent® Infrared ZnSe material featuring <0.0005 cm^{-1} 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 <*N*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

Compatible Mounts

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