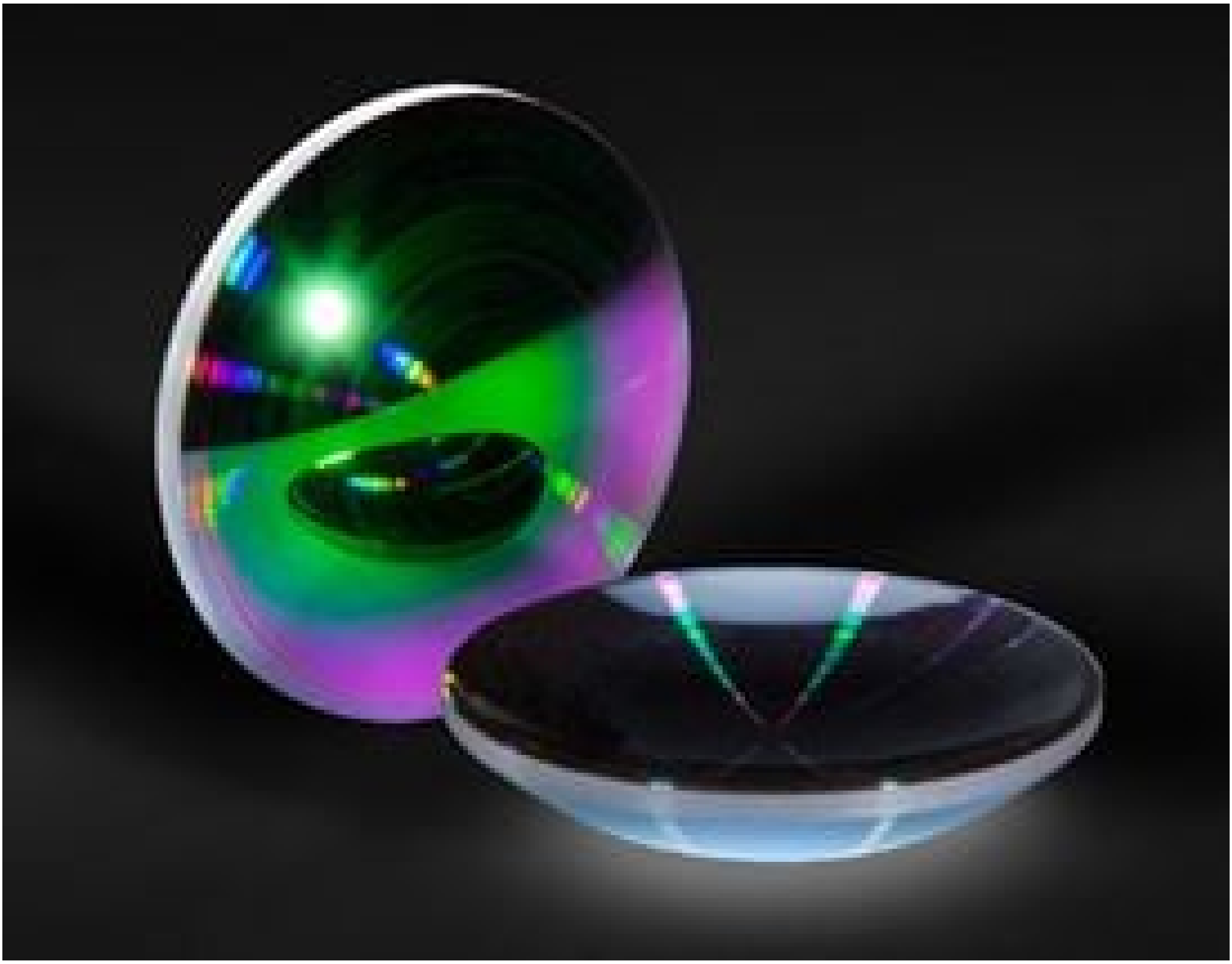
See all 9 Products in Family

TECHSPEC® 25mm Dia x 12.5mm FL Uncoated, Si Aspheric Lens



Stock **#89-357** **20+ In Stock**

Other Coating Options

- 1 + **C$1,036.00**

ADD TO CART

Volume Pricing	
Qty 1-5	**C$1,036.00** each
Qty 6+	**C$833.00** each
Need More?	Request Quote

Product Downloads

General

Type:

Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):

25.00 +0.00/-0.10

Centering (arcmin):

≤10

Centering, ETD (µm):

<21.8

Clear Aperture CA (mm):
22.5

Edge Thickness ET (mm):
2.37

Center Thickness CT (mm):
4.75 ±0.10

Bevel:
Protective as needed

Edges:
Diamond Turned

Shape of Back Surface:
Concave

Optical Properties

Effective Focal Length EFL (mm):
12.50 @ 4000nm

Numerical Aperture NA:
1.00

Back Focal Length BFL (mm):
10.70

Substrate:
Silicon (Si)

Aspheric Design Wavelength (nm):
4000

Asphere Figure Error, RMS @ 632.8nm:
λ/6

Coating:
Uncoated

Surface Accuracy, P-V (µm):
<0.3

Surface Quality:
60-40

f/#:
0.5

Index of Refraction (n_d):
3.422 @ 5µm

Radius R_2 (mm):
87.361

Wavelength Range (nm):
1200 - 7000

Conjugate Distance:
Infinite

Focal Length Specification Wavelength (nm):
4000

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
2.55

Regulatory Compliance

Certificate of Conformance:
View

Product Details

- Diffraction-Limited Performance
- Low Density and Dispersion
- Ideal for Weight Sensitive IR Applications
- Available with BBAR (1650-3000nm) or Mid-Wave Infrared (3000-5000nm) AR Coatings

TECHSPEC® Silicon Aspheric Lenses are high performance, lightweight solutions for BBAR and Mid-Wave Infrared (MWIR) applications and are ideal alternatives for costly ZnSe lenses and brittle Germanium lenses. These lenses are available with efficient broadband AR coatings for the BBAR (1650-3000nm) or MWIR (3000-5000nm) spectral regions. TECHSPEC Silicon Aspheric Lenses feature the mechanical and thermal properties required to withstand many of the effects of harsh environments including fluctuations in temperature and pressure. Because silicon is a low density material, these lenses are also ideal for weight-sensitive systems, such as those found in many defense applications.

Compatible Mounts

;