

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



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

[Other Coating Options](#)

€740⁰⁰

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Volume Pricing	
Qty 1-5	€740,00 each
Qty 6+	€595,00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Aspheric Lens **Type:**

Physical & Mechanical Properties

25.00 +0.00/-0.10 **Diameter (mm):**

≤10 **Centering (arcmin):**

<21.8	Centering, ETD (μm):
22.5	Clear Aperture CA (mm):
2.37	Edge Thickness ET (mm):
4.75 \pm 0.10	Center Thickness CT (mm):
Protective as needed	Bevel:
Diamond Turned	Edges:
Concave	Shape of Back Surface:

Optical Properties

12.50 @4000nm	Effective Focal Length EFL (mm):
1.00	Numerical Aperture NA:
10.70	Back Focal Length BFL (mm):
Silicon (Si)	Substrate: <input type="checkbox"/>
4000	Aspheric Design Wavelength (nm):
$\lambda/6$	Asphere Figure Error, RMS @ 632.8nm:
Uncoated	Coating:
<0.3	Surface Accuracy, P-V (μm):
60-40	Surface Quality:
0.5	f#:
3.422 @5 μm	Index of Refraction (n_d):
87.361	Radius R₂ (mm):
1200 - 7000	Wavelength Range (nm):
Infinite	Conjugate Distance:
4000	Focal Length Specification Wavelength (nm):

Material Properties

2.55	Coefficient of Thermal Expansion CTE (10⁻⁶/°C):
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Regulatory Compliance

View	Certificate of Conformance:
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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 (MMIR) 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 MMR (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