

TECHSPEC® 25mm Dia x 12.5mm FL 3-5µm AR Coated, Si Aspheric Lens



Stock **#89-362** **5 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ A\$1,424.⁰⁰

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Volume Pricing	
Qty 1-5	A\$1,424.00 each
Qty 6+	A\$1,136.00 each
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General

Aspheric Lens **Type:**

Physical & Mechanical Properties

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

≤10 **Centering (arcmin):**

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: <input type="checkbox"/>
Silicon (Si)	
	Aspheric Design Wavelength (nm):
4000	
	Asphere Figure Error, RMS @ 632.8nm:
λ/6	
	Coating:
BBAR (3000-5000nm)	
	Coating Specification:
R _{avg} <3% @ 3 - 5μm	
	Surface Accuracy, P-V (μm):
<0.3	
	Surface Quality:
60-40	
	f#:
0.5	
	Index of Refraction (n_d):
3.422 @5μm	
	Radius R₂ (mm):
87.361	
	Wavelength Range (nm):
3000 - 5000	
	Conjugate Distance:
Infinite	
	Focal Length Specification Wavelength (nm):
4000	

Material Properties	
	Coefficient of Thermal Expansion CTE (10⁻⁶/°C):
2.55	

Regulatory Compliance	
	RoHS 2015:
Compliant	
	Certificate of Conformance:
View	
	REACH 241:
Compliant	

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 MMIR (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

