

TECHSPEC[®] 25mm Dia x 50mm FL 3-5μm AR Coated, Si Aspheric Lens



Stock **#89-618** 7 In Stock

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1

+

C\$1,127^{.00}

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Volume Pricing	
Qty 1-5	C\$1,127.00 each
Qty 6+	C\$903.00 each
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General

Type:

Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):

25.00 +0.00/-0.10

Centering (arcmin):

≤10

Centering, ETD (μm):

<21.8	
22.5	Clear Aperture CA (mm):
2.3	Edge Thickness ET (mm):
3.00 ±0.10	Center Thickness CT (mm):
Protective as needed	Bevel:
Diamond Turned	Edges:
Concave	Shape of Back Surface:

Optical Properties	
50.00 @4000nm	Effective Focal Length EFL (mm):
0.25	Numerical Aperture NA:
47.78	Back Focal Length BFL (mm):
Silicon (Si)	Substrate: □
4000	Aspheric Design Wavelength (nm):
λ/6	Asphere Figure Error, RMS @ 632.8nm:
BBAR (3000-5000nm)	Coating:
R _{avg} <3% @ 3 - 5μm	Coating Specification:
<0.3	Surface Accuracy, P-V (μm):
60-40	Surface Quality:
2.00	f/#:
75.698	Radius R ₂ (mm):
3000 - 5000	Wavelength Range (nm):
Infinite	Conjugate Distance:

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

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