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# 25.4mm Dia. x 50.8mm FL, Uncoated, ISP Optics Silicon (Si) Aspheric Lens | ASPH-SI-25-50

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Stock #24-883 CLEARANCE **5 In Stock**

⊖ 1 ⊕ £286<sup>40</sup>

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## Product Downloads

### General

ASPH-SI-25-50 **Model Number:**

### Physical & Mechanical Properties

25.40 +0.00/-0.13 **Diameter (mm):**

<20 **Centering, ETD (µm):**

**Clear Aperture CA (mm):**

22.86	<b>Edge Thickness ET (mm):</b>
2.40	
	<b>Center Thickness CT (mm):</b>
3.00 ±0.20	
	<b>Bevel:</b>
Protective as needed	
	<b>Shape of Back Surface:</b>
Concave	
	<b>Surface Roughness (□):</b>
<100 Ra	

## Optical Properties

50.80	<b>Effective Focal Length EFL (mm):</b>
0.25	<b>Numerical Aperture NA:</b>
48.38	<b>Back Focal Length BFL (mm):</b>
<a href="#">Silicon (Si)</a>	<b>Substrate:</b> □
Uncoated	<b>Coating:</b>
60-40	<b>Surface Quality:</b>
2.00	<b>f#:</b>
1200 - 7000	<b>Wavelength Range (nm):</b>
Infinite	<b>Conjugate Distance:</b>
λ/4	<b>Irregularity (P-V) @ 632.8nm:</b>

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 240:</b>

## Product Details

- Transmission from 1.2 - 7µm
- Diffraction-Limited Performance
- Available Uncoated or HDAR Coated for 3 - 5µm

ISP Optics Silicon (Si) Aspheric Lenses provide diffraction-limited performance for weight-sensitive, Mid-Wave Infrared (MMIR) applications. Available uncoated for applications in the 1.2 - 7µm range or with a high durability anti-reflection (HDAR) coating in the 3 - 5µm range, these lenses are ideal for harsh environment or black body radiation applications. Silicon features a Knoop Hardness of 1150 making it harder and less brittle than Germanium. ISP Optics Silicon (Si) Aspheric Lenses feature a low density of 2.329g/cm<sup>3</sup>, making them lightweight alternatives to Germanium and Zinc Selenide.