

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**

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1

+

€358^{.00}

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

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

Regulatory Compliance	
	RoHS 2015:
Compliant	
	Certificate of Conformance:
View	
	Reach 240:
Compliant	

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/cm³, making them lightweight alternatives to Germanium and Zinc Selenide.