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

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Stock #24-882 CLEARANCE 2 In Stock

- 1 + C$501.20

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General

Model Number:
ASPH-SI-25-25

Physical & Mechanical Properties

Diameter (mm):
25.40 +0.00/-0.13

Centering, ETD (µm):
<20

Clear Aperture CA (mm):
22.86

Edge Thickness ET (mm):
1.73

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):
25.40

Numerical Aperture NA:
0.50

Back Focal Length BFL (mm):
23.15

Substrate: □
Silicon (Si)

Coating:
Uncoated

Surface Quality:
60-40

f/#:
1.00

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 (MWIR) 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^3, making them lightweight alternatives to Germanium and Zinc Selenide.

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