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25.4mm Dia. x 12.7mm FL, Uncoated, ISP Optics Silicon (Si) Aspheric Lens | ASPH-SI-25-12

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Stock #24-881 [CONTACT US](#)

- 1 + £456.⁰⁰

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General

ASPH-SI-25-12 **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):

0.99

Center Thickness CT (mm):

4.00 ±0.20

Bevel:

Protective as needed

Shape of Back Surface:

Concave

Surface Roughness (□):

<100 Ra

Optical Properties

Effective Focal Length EFL (mm):

12.70

Numerical Aperture NA:

1.00

Back Focal Length BFL (mm):

10.70

Substrate: □

[Silicon \(Si\)](#)

Coating:

Uncoated

Surface Quality:

60-40

f#:

0.50

Wavelength Range (nm):

1200 - 7000

Conjugate Distance:

Infinite

Irregularity (P-V) @ 632.8nm:

λ/4

Regulatory Compliance

Certificate of Conformance:

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