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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 + **€570**.00

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General

Model Number:

ASPH-SI-25-12

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):

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:

View

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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