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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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⊖ 1 ⊕ C\$798⁰⁰

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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):**

22.86 **Clear Aperture CA (mm):**

0.99	Edge Thickness ET (mm):
4.00 ±0.20	Center Thickness CT (mm):
Protective as needed	Bevel:
Concave	Shape of Back Surface:
<100 Ra	Surface Roughness (□):
Optical Properties	
12.70	Effective Focal Length EFL (mm):
1.00	Numerical Aperture NA:
10.70	Back Focal Length BFL (mm):
Silicon (Si)	Substrate: □
Uncoated	Coating:
60-40	Surface Quality:
0.50	f#:
1200 - 7000	Wavelength Range (nm):
Infinite	Conjugate Distance:
λ/4	Irregularity (P-V) @ 632.8nm:

Regulatory Compliance

View	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 (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.