

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

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1

+

€570^{.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	
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:

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.