

25.4mm Dia. x 25.4mm FL, 3 - 5µm BBAR Coated, ISP Optics Silicon (Si) Aspheric Lens | HDAR35-ASPH-SI-25-25

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1

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S\$670^{.60}

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SPECIFICATIONS

General

Model Number:

HDAR35-ASPH-SI-25-25

Physical & Mechanical Properties

25.40 +0.00/-0.13	Diameter (mm):
<20	Centering, ETD (μm):
22.86	Clear Aperture CA (mm):
1.73	Edge Thickness ET (mm):
3.00 ±0.20	Center Thickness CT (mm):
Protective as needed	Bevel:
Concave	Shape of Back Surface:
<100 Ra	Surface Roughness (□):

Optical Properties

25.40	Effective Focal Length EFL (mm):
0.50	Numerical Aperture NA:
23.15	Back Focal Length BFL (mm):
Silicon (Si)	Substrate: □
BBAR (3000-5000nm)	Coating:
R _{avg} <0.5% @ 3 - 5μm R _{abs} <1.5% @ 3 - 5μm	Coating Specification:
60-40	Surface Quality:
1.00	f/#:
3000 - 5000	Wavelength Range (nm):
Infinite	Conjugate Distance:
λ/4	Irregularity (P-V) @ 632.8nm:

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

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 (MMR) 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.