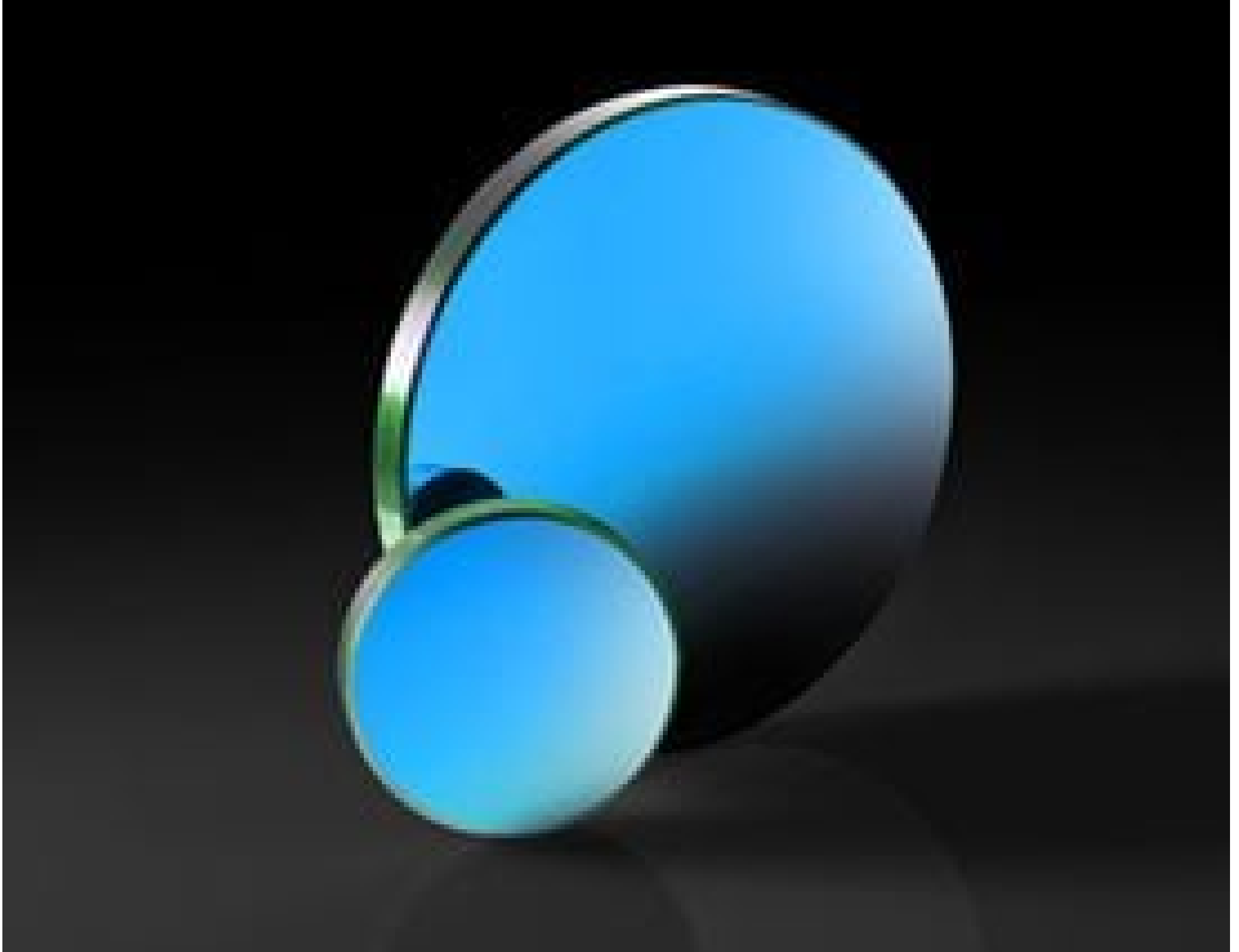


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# 12.7mm Dia. x 50.8mm FL, 3-5µm BBAR Coated, ISP Optics Silicon (Si) PCX Lens | HDAR35-SI-PX-12-50

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Stock #24-888 CLEARANCE **1 In Stock**

⊖ 1 ⊕ £170<sup>40</sup>

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## Product Downloads

### General

Plano-Convex Lens **Type:**  
HDAR35-SI-PX-12-50 **Model Number:**

### Physical & Mechanical Properties

12.70 +0.00/-0.13 **Diameter (mm):**

<3	<b>Centering (arcmin):</b>
2.10 ±0.20	<b>Center Thickness CT (mm):</b>
2.00	<b>Edge Thickness ET (mm):</b>
11.43	<b>Clear Aperture CA (mm):</b>
Protective as needed	<b>Bevel:</b>

## Optical Properties

50.80 @4μm	<b>Effective Focal Length EFL (mm):</b>
BBAR (3000-5000nm)	<b>Coating:</b>
R <sub>avg</sub> <0.5% @ 3 - 5μm R <sub>abs</sub> <1.5% @ 3 - 5μm	<b>Coating Specification:</b>
<a href="#">Silicon (Si)</a>	<b>Substrate:</b> <input type="checkbox"/>
80-50	<b>Surface Quality:</b>
1λ	<b>Irregularity (P-V) @ 632.8nm:</b>
±2	<b>Focal Length Tolerance (%):</b>
123.59	<b>Radius R<sub>1</sub> (mm):</b>
4.00	<b>f#:</b>
0.13	<b>Numerical Aperture NA:</b>
3000 - 5000	<b>Wavelength Range (nm):</b>

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 240:</b>

## Product Details

- High-Durability Anti-Reflection (HDAR) Coated for 3 - 5μm
- Ideal for Weight Sensitive Applications
- Available Focal Lengths from 25.4 – 500mm

ISP Optics Silicon (Si) Plano-Convex (PCX) Lenses feature a High Durability Anti-Reflection (HDAR) coating for increased transmission in the 3 - 5μm range. Silicon features a Knoop Hardness of 1150 making it harder and less brittle than Germanium. In addition, the HDAR coating increases the durability of the substrate, enabling use in harsh environments. ISP Optics Silicon (Si) Plano-Convex (PCX) Lenses also feature a low density of 2.329g/cm<sup>3</sup>, making them ideal for weight-sensitive IR applications such as Near-Infrared (NIR) imaging and infrared spectroscopy.