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0.42 NA, 6.5mm FL, RPO IR Molded Glass Aspheric Lens



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General

Aspheric Lens **Type:**

Physical & Mechanical Properties

7.20 ±0.025 **Diameter (mm):**

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

4.47 **Center Thickness CT (mm):**

Bevel:

Protective as needed

Optical Properties

6.50 **Effective Focal Length EFL (mm):**

0.42 **Numerical Aperture NA:**

IG6 **Substrate:**

BBAR (800-1200) **Coating:**

Coating Specification:
R_{avg} <1% @ 800 - 1200, 0 - 30° AOI

80-60 **Surface Quality:**

0.9 **f#:**

800 - 1200 **Wavelength Range (nm):**

4.72 **Working Distance (mm):**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

Product Details

- Precision Infrared Glass Molded Lenses
- Ideal for High Volume Production Requirements
- Constructed with IG6 Infrared Glass Substrates

Rochester Precision Optics (RPO) Infrared Molded Glass Aspheric Lenses offer several key benefits, including high precision, >99% transmission, and improved performance by reducing optical aberrations, leading to smaller spot sizes and sharper images. Cost-effective molding processes enable options for high-quantity OEM integration while maintaining consistent specifications. Rochester Precision Optics (RPO) Infrared Molded Glass Aspheric Lenses are available with 4.00 and 6.50mm focal lengths and are AR coated for >99% transmission from 800 - 1200nm. Their lightweight form factor, small diameter, and reduced thickness allow these molded aspheric lenses to be integrated into cameras, aerospace systems, measurement systems, biomedical instrumentation, and handheld optical tools.

Note: Use of this substrate at elevated temperatures (>150C) or in the presence of some acids/bases can lead to formation of toxic compounds and should be avoided. Please see MSDS for details.

Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools