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# 12mm Dia. x 10.5mm FL, $MgF_2$ Molded Aspheric Condenser Lens

Molded Aspheric Condenser Lenses

Stock **#35-040** CONTACT US

Other Coating Options

- 1 + **MRP ₹4,818**

Price inclusive of all taxes

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## General

**Type:**

Condenser Lens

**Note:**

Click here for more information on the ISO 10110 surface quality specification.

## Physical & Mechanical Properties

**Diameter (mm):**

12.00 +/-0.3

**Centering (arcmin):**

≤30

**Clear Aperture CA (mm):**

9.50

**Edge Thickness ET (mm):**

2.2

**Center Thickness CT (mm):**

6.00 ±0.20

**Bevel:**

Protective as needed

**Diameter of Asphere (mm):**

12.0

**Shape of Back Surface:**

Convex

## Optical Properties

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

10.50 @ 587.6nm

**Numerical Aperture NA:**

0.57

**Back Focal Length BFL (mm):**

5.70

**Substrate:**

Liba2000+

**Focal Length Tolerance (%):**

±7

**Coating:**

$MgF_2$ (400-700nm)

**Coating Specification:**

$R_{avg} \leq 1.75\%$ @ 400 - 700nm

**Surface Quality:**

5/3 x 0.4; E 0.2

**f/#:**

0.88

**Abbe Number ($v_d$):**

58.85

**Index of Refraction ($n_d$):**

1.520

**Radius $R_2$ (mm):**

25.0

**Wavelength Range (nm):**

400 - 700

**Conjugate Distance:**

Infinite

**Focal Length Specification Wavelength (nm):**

587.6

## Material Properties

**Coefficient of Thermal Expansion CTE ($10^{-6}$/°C):**

9.4

## Regulatory Compliance

**RoHS 2015:**

Compliant

**Certificate of Conformance:**

View

**Reach 242:**

Compliant

**Country of Origin:**

Germany

**Imported By:**

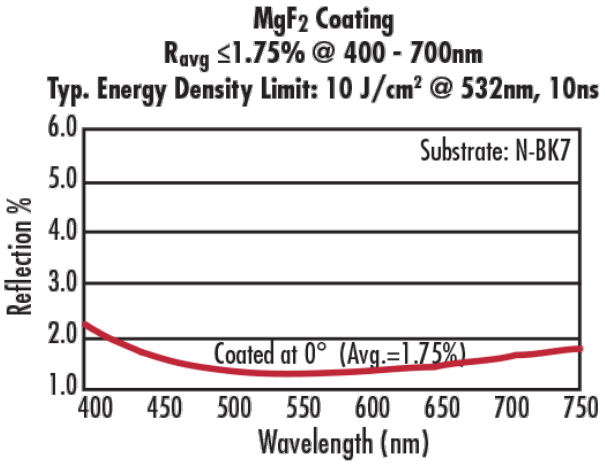
Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91- 80-6845 0000

# Product Details

- Hardened for Improved Durability
- High Numerical Apertures
- Ideal for Illumination Applications

Molded Aspheric Condenser Lenses are pressed, hardened, and annealed to meet precise optical and mechanical specifications. The hardening process improves the durability of the lenses, making them less susceptible to thermal shock and scratching than traditionally polished lenses. These Molded Aspheric Condenser Lenses are ground and polished on the second surface, enhancing the overall precision of the lenses. Molded Aspheric Condenser lenses are ideal for a wide range of illumination and detection applications, including biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms.

## Technical Information




## Coating Curves

## Compatible Mounts

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