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# 10.5mm Diameter x 9.45mm FL, $MgF_2$ Coated, Aspheric Condenser Lens

Stock **#15-530** **1 In Stock**

Other Coating Options

- 1 + **S$88.90**

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| Qty 1-10 | **S$88.90** each |
| Qty 11-49 | **S$79.80** each |
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## General

**Type:**

Condenser Lens

## Physical & Mechanical Properties

**Diameter (mm):**

10.50 +0.00/-0.15

**Centering (arcmin):**

≤30

**Clear Aperture CA (mm):**

9.8

**Edge Thickness ET (mm):**

1.1

**Center Thickness CT (mm):**

3.80 ±0.2

**Bevel:**

Protective as needed

**Diameter of Asphere (mm):**

10.5

**Shape of Back Surface:**

Plano

## Optical Properties

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

9.45

**Numerical Aperture NA:**

0.56

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

8.10

**Substrate:**

N-F2

**Focal Length Tolerance (%):**

±7

**Coating:**

$MgF_2$ (400-700nm)

**Coating Specification:**

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

**Surface Quality:**

80-50 (typical)

**f/#:**

0.9

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

36.43

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

1.620

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

Plano

**Wavelength Range (nm):**

400 - 700

**Conjugate Distance:**

Infinite

## Material Properties

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

7.8

## Regulatory Compliance

**RoHS 2015:**

Compliant

**Certificate of Conformance:**

View

**Reach 235:**

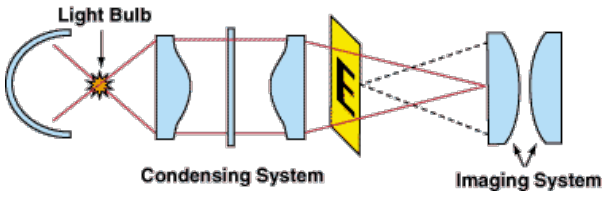
Compliant

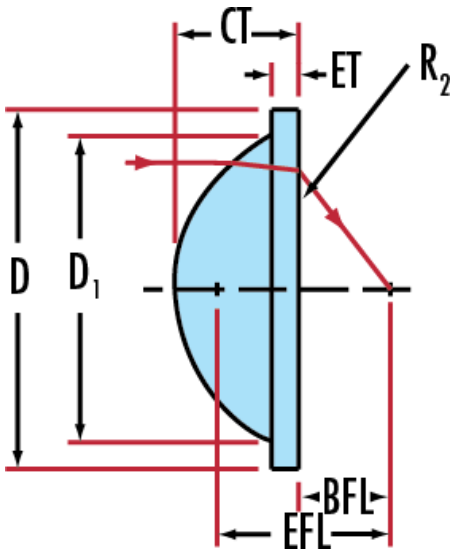
# Product Details

- Molded Illumination Lenses
- Aspheric or Spherical Designs
- High Numerical Apertures

Condenser Lenses are molded lenses designed for illumination applications. Featuring large apertures and short focal lengths, Condenser Lenses are commonly used in emitter-detector applications, projection applications, or condensing illumination applications such as Koehler Illumination. The Aspheric Condenser Lenses are molded on the aspheric surface and ground and polished on the opposite face, offering superior performance. The Plano-Convex (PCX) Condenser Lenses are molded on both surfaces, offering excellent value.

# Technical Information






## Coating Curves

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