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6.8mm Dia. x 6mm FL, MgF_2 Molded Aspheric Condenser Lens

Molded Aspheric Condenser Lenses

Stock **#35-036** **8 In Stock**

Other Coating Options

- 1 + S$66.85

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Volume Pricing	
Qty 1-10	**S$66.85** each
Qty 11-49	**S$58.80** each
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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):

6.80 +/-0.3

Centering (arcmin):
≤25

Clear Aperture CA (mm):
5.44

Edge Thickness ET (mm):
0.65

Center Thickness CT (mm):
2.80 ±0.20

Bevel:
Protective as needed

Diameter of Asphere (mm):
6.8

Shape of Back Surface:
Plano

Optical Properties

Effective Focal Length EFL (mm):
6.00 @ 587.6nm

Numerical Aperture NA:
0.56

Back Focal Length BFL (mm):
4.20

Substrate:
Liba2000+

Focal Length Tolerance (%):
±5

Coating:
MgF_2 (400-700nm)

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

Surface Quality:
Molded Side: 5/3 x 0.4; E 0.2
Polished Side: 5/3 x 0.25; E 0.2

f/#:
0.9

Abbe Number (v_d):
58.85

Index of Refraction (n_d):
1.520

Radius R_2 (mm):
Plano

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

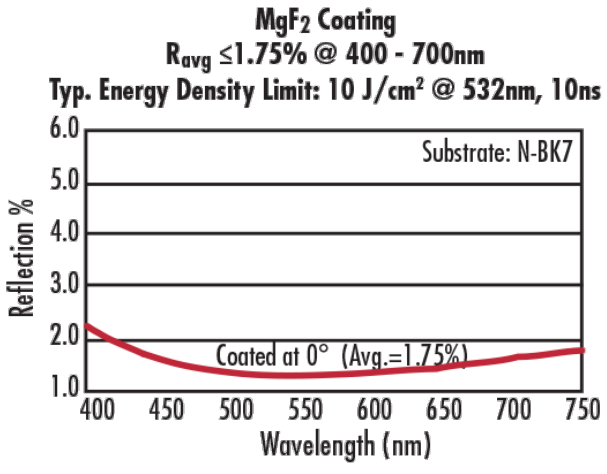
Reach 242:
Compliant

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

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