See all 88 Products in Family

6.3mm Dia. x 9mm FL, Uncoated Molded Aspheric Condenser Lens

Molded Aspheric Condenser Lenses

Stock **#34-455** **20+ In Stock**

Other Coating Options

- 1 + £28.40

ADD TO CART

Volume Pricing	
Qty 1-10	**£28.40** each
Qty 11-49	**£25.60** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Condenser Lens

Note:

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

Physical & Mechanical Properties

Diameter (mm):
6.30 +/-0.3

Centering (arcmin):
≤25

Clear Aperture CA (mm):
5.00

Edge Thickness ET (mm):
0.6

Center Thickness CT (mm):
1.70 ±0.20

Bevel:
Protective as needed

Diameter of Asphere (mm):
6.3

Shape of Back Surface:
Plano

Optical Properties

Effective Focal Length EFL (mm):
9.00 @ 587.6nm

Numerical Aperture NA:
0.35

Back Focal Length BFL (mm):
7.90

Substrate:
Liba2000+

Focal Length Tolerance (%):
±5

Coating:
Uncoated

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

f/#:
1.43

Radius R_2 (mm):
Plano

Wavelength Range (nm):
350 - 2000

Conjugate Distance:
Infinite

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

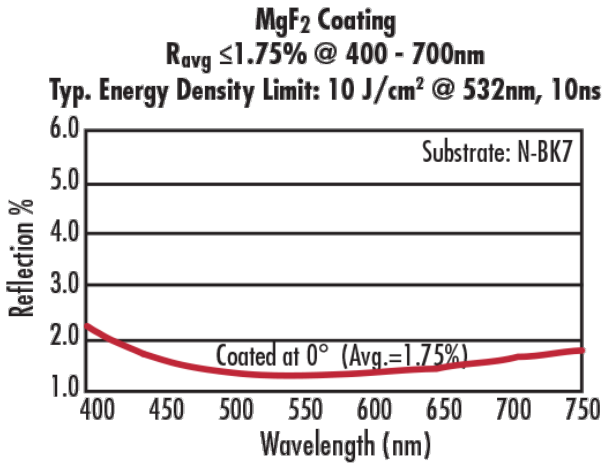
Reach 242:
Compliant

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


MgF2 Coating
Ravg ≤1.75% @ 400 - 700nm
Typ. Energy Density Limit: 10 J/cm² @ 532nm, 10ns
Substrate: N-BK7
Coated at 0° (Avg.=1.75%)
Reflection %
6.0
5.0
4.0
3.0
2.0
1.0
400
450
500
550
600
650
700
750
Wavelength (nm)

;