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18mm Dia. x 8.4mm FL, Uncoated Molded Aspheric Condenser Lens



Molded Aspheric Condenser Lenses

Stock **#34-460** **20+ In Stock**

☐ [Other Coating Options](#)

-

1

+

MRP ₹3,581

Price inclusive of all taxes

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Volume Pricing	
Qty 1-10	₹3,581 each
Qty 11-49	₹3,228 each
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General

Condenser Lens

Type:

Note:
[Click here](#) for more information on the ISO 10110 surface quality specification.

Physical & Mechanical Properties

Diameter (mm):

18.00 +/-0.3	
Centering (arcmin):	≤25
Clear Aperture CA (mm):	14.40
Edge Thickness ET (mm):	2.8
Center Thickness CT (mm):	6.30 (nominal)
Bevel:	Protective as needed
Diameter of Asphere (mm):	15.0
Shape of Back Surface:	Plano

Optical Properties	
Effective Focal Length EFL (mm):	8.40 @ 587.6nm
Numerical Aperture NA:	1.06
Back Focal Length BFL (mm):	4.50
Substrate: □	F4GT
Focal Length Tolerance (%):	±5
Coating:	Uncoated
Surface Quality:	Molded Side: 5/3 x 1.6 Polished Side: 5/3 x 1.6
f/#:	0.47
Abbe Number (v _d):	36.43
Index of Refraction (n _d):	1.620
Radius R ₂ (mm):	Plano
Wavelength Range (nm):	350 - 2000
Conjugate Distance:	Infinite
Focal Length Specification Wavelength (nm):	587.6

Material Properties	
Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):	7.8

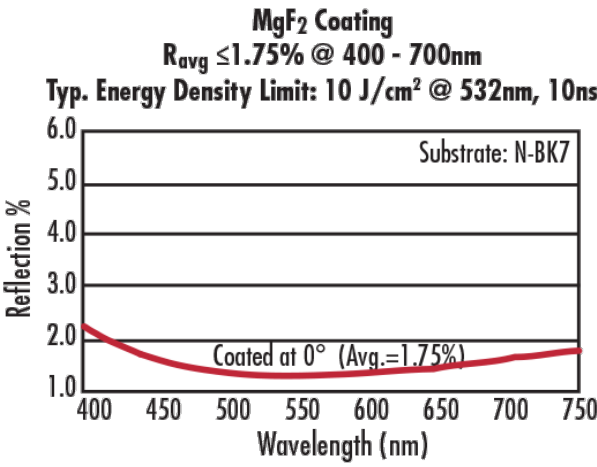
Regulatory Compliance	
RoHS 2015:	Compliant
Certificate of Conformance:	View
Reach 242:	Compliant
Country of Origin:	Poland
Imported By:	Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +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 DNAsequencers and polymerase chain reaction (PCR) testing platforms.

Technical Information



Compatible Mounts