

18mm Dia. x 13.5mm FL, NIR I Coated, Molded Aspheric Condenser Lens



Molded Aspheric Condenser Lenses

Stock #15-888 **2 In Stock** [Other Coating Options](#)

1

MRP ₹6,306

Price inclusive of all taxes

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Volume Pricing	
Qty 1-10	₹6,306 each
Qty 11-49	₹5,550 each
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Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
Curve (xlsx)	Zemax:zar
eDrawing:eprt	Code V:seq
EO Spec Sheet	Download All

General

Type: Condenser Lens

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):	2.2
Center Thickness CT (mm):	7.40 ±0.20	Bevel:	Protective as needed
Diameter of Asphere (mm):	18.0	Shape of Back Surface:	Plano

Optical Properties

Effective Focal Length EFL (mm):	13.50 @ 587.6nm	Numerical Aperture NA:	0.67
Back Focal Length BFL (mm):	8.60	Substrate:	Liba2000+
Focal Length Tolerance (%):	±5	Coating:	NIR I (600-1050nm)
Coating Specification:	R _{avg} ≤0.5% @ 600 - 1050nm	Surface Quality:	Molded Side: 5/3 x 0.4; E 0.2 Polished Side: 5/3 x 0.25; E 0.2

f/#:	0.75	Abbe Number (v_d):	58.85
Index of Refraction (n_d):	1.520	Radius R₂ (mm):	Plano
Wavelength Range (nm):	600 - 1050	Conjugate Distance:	Infinite
Focal Length Specification Wavelength (nm):	587.6		

Material Properties

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):	9.4
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Regulatory Compliance

RoHS 2015:	Compliant	Certificate of Conformance:	View
Reach 242:	Compliant		
Country of Origin:	United States	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

Frequently Purchased Together



#35-047 - 16mm Dia. x 10.8mm FL, MgF₂ Molded Aspheric



#35-048 - 18mm Dia. x 8.4mm FL, MgF₂ Molded Aspheric



#48-760 - 20.0mm Dia. x 50.0mm FL, NIR I Coated, Plano-



#57-607 - Air Blower with Compressor

Condenser Lens
₹4,818

Qty

Condenser Lens
₹4,818

Qty

Convex Lens
₹4,792

Qty

₹3,744

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	18.0mm Optic Dia., Optic Mount	Fixed		#64-558	₹3,305 Request Quote	CONTACT US <input type="text" value="1"/>
	18mm Inner Single Optic Mount	Fixed		#38-753	₹4,137 Request Quote	20+ In Stock <input type="text" value="1"/>
	25mm Cage 18mm Diameter Lens Mount	Fixed		#85-545	₹4,616 Request Quote	20+ In Stock <input type="text" value="1"/>

Check out our full selection of mounts [here](#).

Resources

Media Type

- Application Note
- Scientific Paper
- Trending in Optics
- Video
- Published Article
- FAQ
- Glossary

APPLICATION NOTE

Anti-Reflection (AR) Coatings

APPLICATION NOTE

An Introduction to Optical Coatings

CASE STUDIES

Laser Optics for Eye Surgery

APPLICATION NOTE

Lens Geometry Performance Comparison

APPLICATION NOTE

All About Aspheric Lenses

WEBINARS

Design Considerations for Custom Aspheres

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