TECHSPEC®

25mm Dia. x 175mm FL, MgF_2 Coated, Achromatic Doublet Lens

MgF_2 Coated Achromatic Lenses

Stock #32-884 20+ In Stock Other Coating Options

- 1 +

£97.60

ADD TO CART

Volume Pricing	
Qty 1-5	£97.60 each
Qty 6-25	£97.60 each
Qty 26-49	£73.60 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:stp
- PDF Drawing:pdf
- ISO 10110 Drawing
- IGES:igs
- Spec Sheets:pdf
- Zemax:zar
- Zemax:zmx
- eDrawing:easm
- Code V:seq
- EO Spec Sheet
- Download All

General

Type:	Achromatic Lens

Physical & Mechanical Properties

Diameter (mm):	25.00 +0.0/-0.025	**Clear Aperture CA (mm):**	24.00
Centering (arcmin):	<1	**Center Thickness CT (mm):**	9.00 ±0.20
Center Thickness CT 1 (mm):	6.00 ±0.10	**Center Thickness CT 2 (mm):**	3.00 ±0.10
Edge Thickness ET (mm):	7.94	**Bevel:**	Protective as needed

Optical Properties

Effective Focal Length EFL (mm):	175.00	**Focal Length Tolerance (%):**	±1
Back Focal Length BFL (mm):	170.84	**Focal Length Specification Wavelength (nm):**	587.6
Radius R_1 (mm):	109.16	**Radius R_2 (mm):**	-79.38
Radius R_3 (mm):	-226.03	**Substrate:** ⓘ	N-BK7 / N-SF5
Surface Quality:	40-20	**f/#:**	7.00

Numerical Aperture NA:	0.07	**Coating:**	MgF_2 (400-700nm)
Coating Specification:	R_{avg} ≤1.75% @ 400 - 700nm	**Power (P-V) @ 632.8nm:**	1.5λ
Irregularity (P-V) @ 632.8nm:	λ/4	**Wavelength Range (nm):**	400 - 700

Regulatory Compliance

RoHS 2015:	**Compliant**	**Certificate of Conformance:**	**View**
Reach 240:	**Compliant**		

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our **custom manufacturing capabilities** or submit an inquiry **here.**

Product Details

- Designed for 0° Angle of Incidence
- Less Than 1.75% Reflectance Per Surface @ 400 - 700nm
- **VIS 0°** and **VIS-NIR** Coated Achromats Also Available

TECHSPEC ® MgF2 Coated Achromatic Lenses consist of two optical components cemented together to form an achromatic doublet which is computer optimized to correct for on-axis spherical and chromatic aberrations. These lenses feature a single layer of MgF2 which provides less than 1.75% reflectivity from 400 – 700nm. TECHSPEC MgF2 Coated Achromatic Lenses are best for applications involving multi-color (white light) imaging due to their specific doublet lens pairing that enables them to correct the color separation inherent in glass. Having eliminated the problematic chromatic aberrations, achromatic doublet lenses become the most cost-efficient means for polychromatic illumination and imaging.

Technical Information

Coating Curves

MgF_2 (400-700nm)

SHIFT + SELECT an area on CURVE to zoom

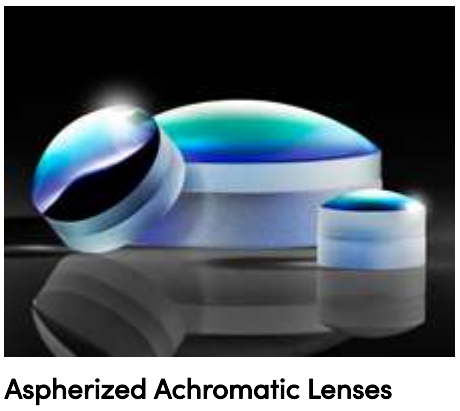
Please note that coating performance outside each product's specified design range is theoretical and may vary.

Related Products

Optic Component Mounts

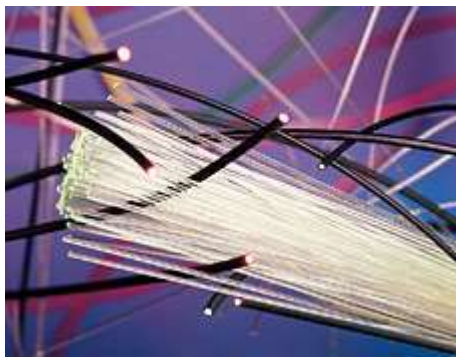
C, S, and T-Mount Circular Optic Mounts

Basic and Plus Optical Component Cleaning Kits

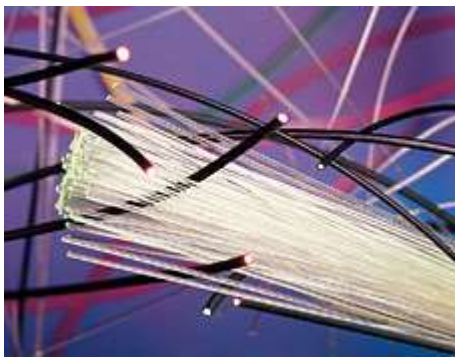


Aspherized Achromatic Lenses

Frequently Purchased Together



#02-534 – 1000µm, Optical Grade Plastic Optical Fiber Unjacketed
£1.60
Qty



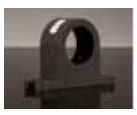
#02-549 – 2000µm, Optical Grade Plastic Optical Fiber Unjacketed
£3.20
Qty

#03-629 – C-Mount Double Male Thread Ring
£29.40
Qty

#30-263 – 12mm Max. Aperture, Iris Diaphragm
£39.00
Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price ☐	Buy
MORE+ 	25.0mm Optic Dia., Optic Mount	Fixed		#64-560	£26.20 Request Quote	CONTACT US 1

	Title	Type	Compare	Stock Number	Price ☐	Buy
MORE+ 	30mm Cage 25/25.4mm Diameter Thick Lens Mount	Fixed		#85-588	£36.60 Request Quote	20+ In Stock 1
MORE+ 	25.0/25.4mm Optic Dia., L-Slot Direct Mount	Fixed		#36-410	£54.40 Request Quote	15 In Stock 1
MORE+ 	25.0/25.4mm Optic Dia., Side Flange Direct Mount	Fixed		#36-414	£56.80 Request Quote	20+ In Stock 1
MORE+ 	25/25.4mm Diameter, T-Mount Thick Optic Mount	Fixed		#52-293	£57.60 Request Quote	CONTACT US 1
MORE+ 	25mm Thick Inner Pair Optic Mounts	Fixed		#11-054	£64.40 Request Quote	5 In Stock 1
MORE+ 	25/25.4mm Diameter, C-Mount Thick Optic Mount	Fixed		#56-354	£79.20 Request Quote	5 In Stock 1
MORE+ 	25.0/25.4mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-411	£81.60 Request Quote	5 In Stock 1
MORE+ 	25.0/25.4mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-956	£220.80 Request Quote	CONTACT US 1
MORE+ 	25.0/25.4mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-959	£432.00 Request Quote	6 In Stock 1
MORE+ 	25.0/25.4mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-776	£604.00 Request Quote	2 In Stock 1

Check out our full selection of mounts **here**.

Resources

Media Type

- ☐ Application Note
- ☐ Scientific Paper
- ☐ Video
- ☐ FAQ
- ☐ Glossary

APPLICATION NOTE
Anti-Reflection (AR) Coatings

APPLICATION NOTE
An Introduction to Optical Coatings

APPLICATION NOTE
Lens Geometry Performance Comparison

SCIENTIFIC PAPER
Achrotech: achromat cost versus performance...

APPLICATION NOTE
Why Use an Achromatic Lens?

VIDEO
Achromatic Lenses Review

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