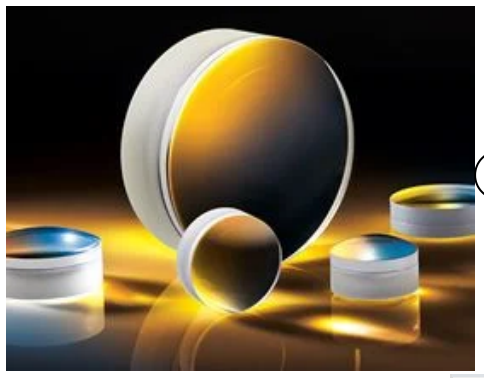
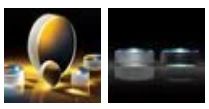
TECHSPEC® 10mm Dia. x 20mm FL, VIS 0° Coated, Achromatic Lens





Stock #63-706 20+ In Stock

Other Coating Options

- 1 +

C$116.20

ADD TO CART

Volume Pricing	
Qty 1-5	C$116.20 each
Qty 6-25	C$92.40 each
Qty 26-49	C$87.50 each
Need More?	Request Quote

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):	10.00 +0.0/-0.025	**Clear Aperture CA (mm):**	9.00
Centering (arcmin):	<1	**Center Thickness CT (mm):**	5.00 ±0.10
Center Thickness CT 1 (mm):	4.00 ±0.05	**Center Thickness CT 2 (mm):**	1.00 ±0.05
Edge Thickness ET (mm):	3.91	**Bevel:**	Protective as needed

Optical Properties

Effective Focal Length EFL (mm):	20.00	**Focal Length Tolerance (%):**	±1
Back Focal Length BFL (mm):	17.24	**Focal Length Specification Wavelength (nm):**	587.6
Radius R_1 (mm):	14.15	**Radius R_2 (mm):**	-8.38
Radius R_3 (mm):	-71.22	**Substrate:** ⓘ	N-BAF10 / N-SF10
Surface Quality:	40-20	**f/#:**	2.00
Numerical Aperture NA:	0.25	**Coating:**	VIS 0° (425-675nm)

Coating Specification:	R_{avg} ≤0.4% @ 425 - 675nm	**Power (P-V) @ 632.8nm:**	1.5λ
Irregularity (P-V) @ 632.8nm:	λ/4	**Wavelength Range (nm):**	425 - 675

Regulatory Compliance

RoHS 2015:	**Compliant**	**Reach 219:**	**Compliant**
Certificate of Conformance:	**View**		

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

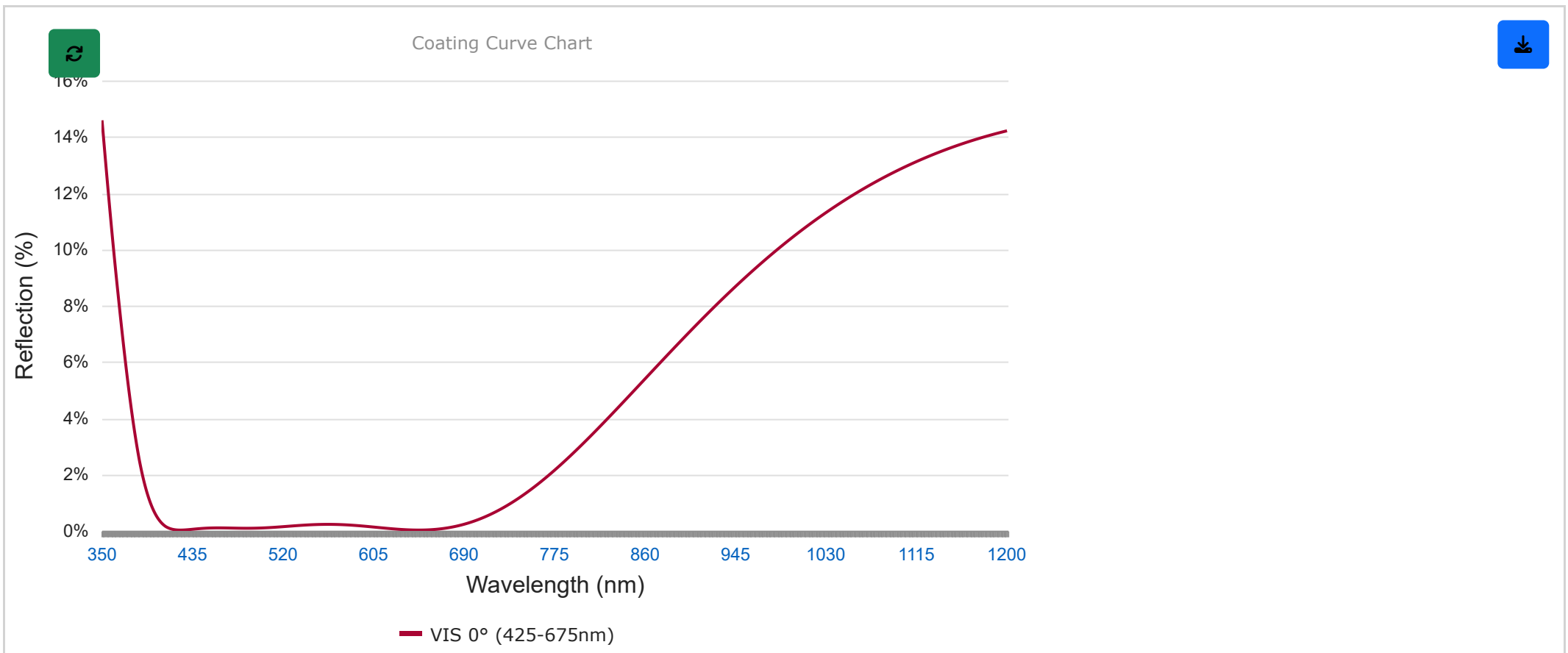
- Designed for 0° Angle of Incidence
- Less Than 0.4% Reflectance Per Surface from 425 - 675nm
- **MgF_2** and **VIS-NIR** Coated Achromats Also Available

TECHSPEC® VIS 0° Coated Achromatic Lenses consist of two optical components cemented together to form an achromatic doublet. The doublet is computer optimized to correct for on-axis spherical and chromatic aberrations. 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. TECHSPEC® VIS 0° Coated Achromatic Lenses provide optimized transmission for 425 – 675nm, reducing average reflection to 0.4%. **MgF2** and **VIS-NIR** Coated Achromats are also available on our website.

Technical Information

Coating Curves

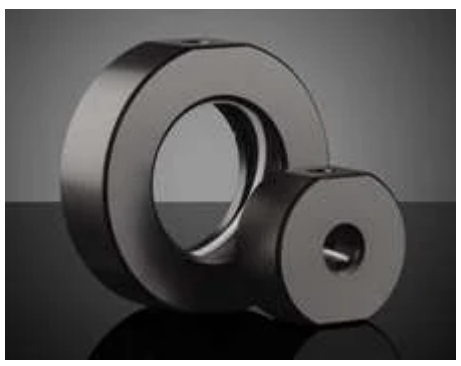
VIS 0° (425-675nm)



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.

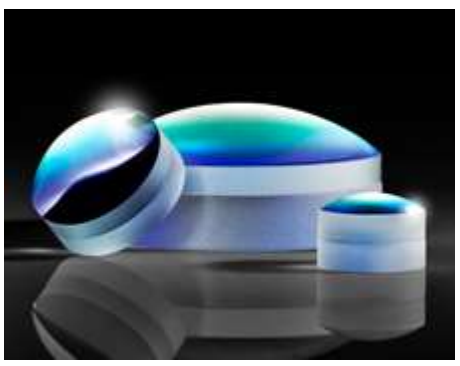
Related Products



Optic Component Mounts

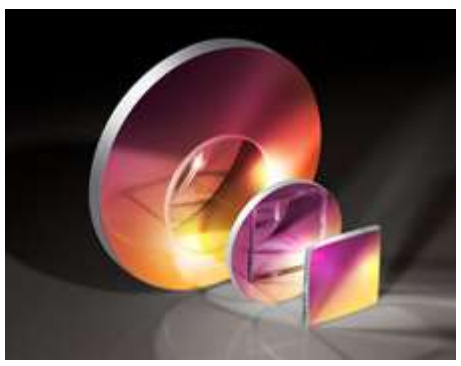
C, S, and T-Mount Circular Optic Mounts

Optics Cleaning Brushes

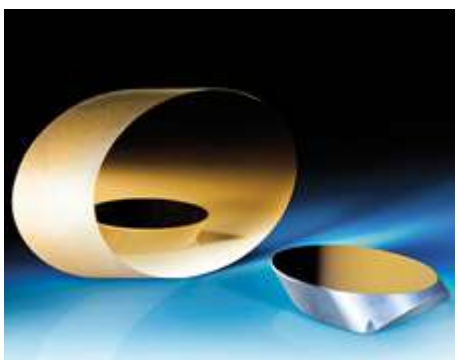


Aspherized Achromatic Lenses

Frequently Purchased Together



#27-400 – 5mm Diameter, 4-6λ Mirror
C$21.35
Qty



#30-837 – Elliptical Mirror 26.97mm Minor Axis Protected Aluminum
C$141.40
Qty

#32-327 – 25mm Dia. x 100mm FL, MgF_2 Coated, Achromatic Doublet Lens
C$170.80
Qty

#32-724 – 25mm Dia. x 60mm FL, MgF_2 Coated, Achromatic Doublet Lens
C$170.80
Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price ☐	Buy
MORE+ 	10.0mm Optic Dia., Optic Mount	Fixed		#64-554	C$45.85 Request Quote	20+ In Stock 1
MORE+ 	10mm Diameter, S-Mount Thick Optic Mount	Fixed		#63-951	C$57.05 Request Quote	20+ In Stock 1
MORE+ 	25mm Cage 10mm Diameter Lens Mount	Fixed		#85-551	C$64.05 Request Quote	4 In Stock 1
MORE+ 	10mm Diameter, C-Mount Thick Optic Mount	Fixed		#63-980	C$79.10 Request Quote	20+ 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

View More

;