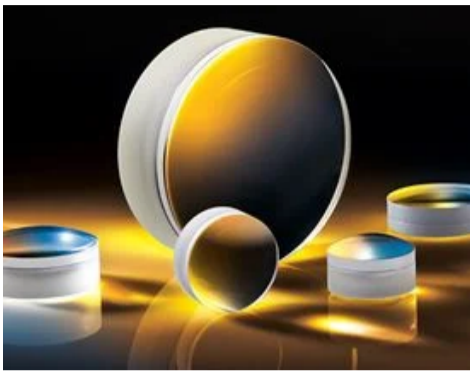


TECHSPEC® 12.5mm Dia. x 80mm FL, VIS 0° Coated, Achromatic Lens



Stock #47-670 **15 In Stock** [Other Coating Options](#)

1 **£73^{.20}**

ADD TO CART



Volume Pricing	
Qty 1-5	£73.20 each
Qty 6-25	£58.40 each
Qty 26-49	£54.80 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):	12.50 +0.0/-0.025	Clear Aperture CA (mm):	11.50
Centering (arcmin):	<1	Center Thickness CT (mm):	3.70 ±0.10
Center Thickness CT 1 (mm):	2.10 ±0.05	Center Thickness CT 2 (mm):	1.60 ±0.05
Edge Thickness ET (mm):	3.12	Bevel:	Protective as needed

Optical Properties

Effective Focal Length EFL (mm):	80.00	Focal Length Tolerance (%):	±1
Back Focal Length BFL (mm):	78.40	Focal Length Specification Wavelength (nm):	587.6
Radius R₁ (mm):	49.62	Radius R₂ (mm):	-35.73
Radius R₃ (mm):	-103.22	Substrate:	N-BK7 / N-SF5
Surface Quality:	40-20	f/#:	6.4

Numerical Aperture NA:	0.08	Coating:	VIS 0° (425-675nm)
Coating Specification:	$R_{avg} \leq 0.4\%$ @ 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	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

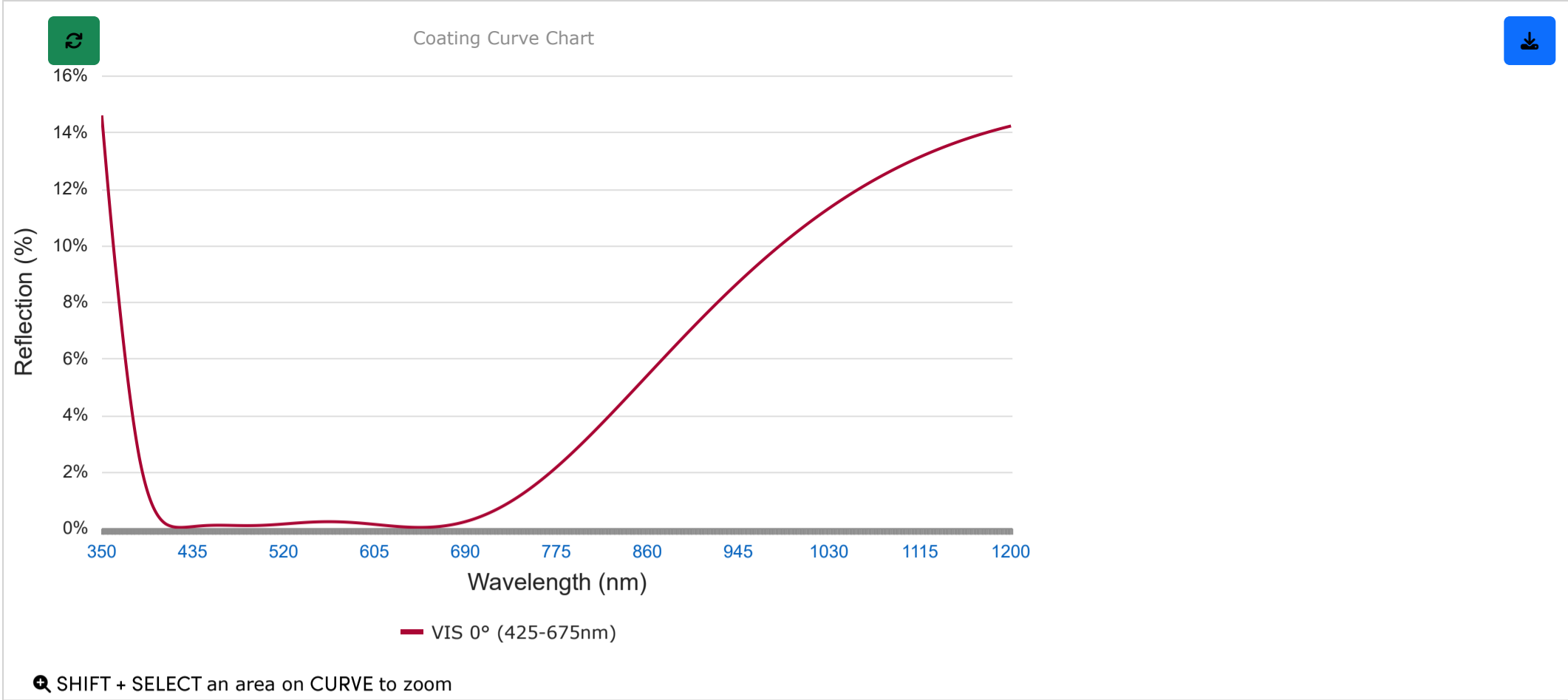
- Designed for 0° Angle of Incidence
- Less Than 0.4% Reflectance Per Surface from 425 - 675nm
- **MgF₂** and **VIS-NIR** Coated Achromats Also Available

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)



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

Related Products



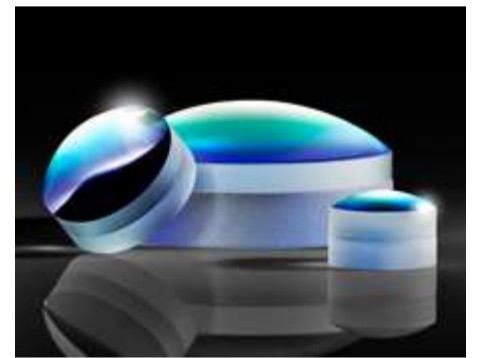
Optic Component Mounts



C, S, and T-Mount Circular Optic Mounts



Optics Cleaning Brushes



Aspherized Achromatic Lenses

Frequently Purchased Together



#30-787 - 28mm EFL Mounted, RKE Precision Eyepiece
£97.60

Qty



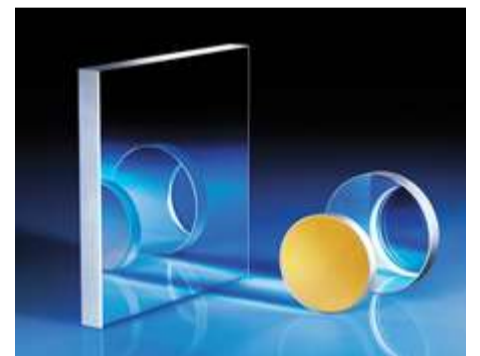
#32-506 - 40mm 50R/50T Cube Beamsplitter
£384.00

Qty



#32-513 - 25 x 35mm Enhanced Aluminum, λ/4 Mirror
£64.00

Qty































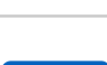




#32-940 - 5mm Dia Enhanced Aluminum, 4-6λ Mirror
£22.80

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	12.5/12.7mm Optic Dia., SM05 Thin Mount, M4	Fixed		#13-789	£15.60 Request Quote	10 In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
 	12.5/12.7mm Optic Dia., SM05 Thin Mount, 8-32	Fixed		#13-790	£15.60 Request Quote	17 In Stock <input type="text" value="1"/> 
 	25mm Cage 12.5mm Diameter Lens Mount	Fixed		#85-549	£36.60 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	12.5/12.7mm Optic Dia., L-Slot Direct Mount	Fixed		#36-416	£47.20 Request Quote	17 In Stock <input type="text" value="1"/> 
 	12.5/12.7mm Optic Dia., Side Flange Direct Mount	Fixed		#36-418	£47.20 Request Quote	10 In Stock <input type="text" value="1"/> 
 	12.5mm Diameter, C-Mount Thick Optic Mount	Fixed		#54-623	£47.60 Request Quote	17 In Stock <input type="text" value="1"/> 
 	12-12.7mm Diameter, S-Mount Thick Optic Mount	Fixed		#63-952	£54.00 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	12.5/12.7mm Diameter, T-Mount Thin Optic Mount	Fixed		#52-933	£57.60 Request Quote	5 In Stock <input type="text" value="1"/> 
 	12.5mm Inner Pair Optic Mounts	Fixed		#11-406	£64.40 Request Quote	2 In Stock <input type="text" value="1"/> 
 	12.5/12.7mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-417	£77.20 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	12.5/12.7mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-955	£208.80 Request Quote	5 In Stock <input type="text" value="1"/> 
 	12.5/12.7mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-958	£343.20 Request Quote	5 In Stock <input type="text" value="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

APPLICATION NOTE

Why Use an Achromatic Lens?

VIDEO

Achromatic Lenses Review

Achrotech:
achromat cost
versus
performance...

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