

TECHSPEC[®] 3mm Dia. x 12mm FL, VIS 0° Coated, Achromatic Lens



Stock **#49-273** 20+ In Stock

☐ [Other Coating Options](#)

-

1

+

€124⁶³

ADD TO CART

Volume Pricing	
Qty 1-5	€124,63 each
Qty 6-25	€99,91 each
Qty 26-49	€93,73 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Achromatic Lens		Type:
Physical & Mechanical Properties		
Diameter (mm):		3.00 +0.0/-0.025
Clear Aperture CA (mm):		2.7
Centering (arcmin):		<1
Center Thickness CT (mm):		2.68 ±0.10
Center Thickness CT 1 (mm):		1.68 ±0.05
Center Thickness CT 2 (mm):		1.00 ±0.05
Edge Thickness ET (mm):		2.45
Bevel:		Protective as needed
Optical Properties		
Effective Focal Length EFL (mm):		12.00
Focal Length Tolerance (%):		±1
Back Focal Length BFL (mm):		10.77
Focal Length Specification Wavelength (nm):		587.6
Radius R ₁ (mm):		7.39
Radius R ₂ (mm):		-5.15
Radius R ₃ (mm):		-14.62
Substrate:		N-BK7 / N-SF5
Surface Quality:		20-10
f/#:		4.00
Numerical Aperture NA:		0.13
Coating:		VS 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

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

CUSTOM

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](#).

COMPATIBLE MOUNTS