

**TECHSPEC® 1mm Dia. x 1.5mm FL, MgF<sub>2</sub> Coated, Achromatic Doublet Lens**



MgF<sub>2</sub> Coated Achromatic Lenses



Stock #65-564 **13 In Stock**

⊖ 1 ⊕ €260.<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	€260,00 each
Qty 6-25	€208,00 each
Qty 26-49	€195,00 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Achromatic Lens **Type:**

**Physical & Mechanical Properties**

**Diameter (mm):**

1.00 +0.0/-0.025	<b>Clear Aperture CA (mm):</b>
0.5	
	<b>Centering (arcmin):</b>
30-45	
	<b>Center Thickness CT (mm):</b>
1.00 ±0.10	
	<b>Center Thickness CT 1 (mm):</b>
0.50 ±0.05	
	<b>Center Thickness CT 2 (mm):</b>
0.50 ±0.05	
	<b>Edge Thickness ET (mm):</b>
0.80	
	<b>Bevel:</b>
Protective as needed	

## Optical Properties

1.50	<b>Effective Focal Length EFL (mm):</b>
	<b>Focal Length Tolerance (%):</b>
±2	
	<b>Back Focal Length BFL (mm):</b>
0.92	
	<b>Focal Length Specification Wavelength (nm):</b>
587.6	
	<b>Radius R<sub>1</sub> (mm):</b>
0.80	
	<b>Radius R<sub>2</sub> (mm):</b>
-0.80	
	<b>Radius R<sub>3</sub> (mm):</b>
-4.50	
	<b>Substrate:</b> <input type="checkbox"/>
<a href="#">N-PSK53A / N-LASF9</a>	
	<b>Surface Quality:</b>
20-10	
	<b>f#:</b>
1.5	
	<b>Numerical Aperture NA:</b>
0.33	
	<b>Coating:</b>
MgF <sub>2</sub> (400-700nm)	
	<b>Coating Specification:</b>
R <sub>avg</sub> ≤ 1.75% @ 400 - 700nm	
	<b>Power (P-V) @ 632.8nm:</b>
1.5λ	
	<b>Irregularity (P-V) @ 632.8nm:</b>
λ/4	
	<b>Wavelength Range (nm):</b>
400 - 700	

## Regulatory Compliance

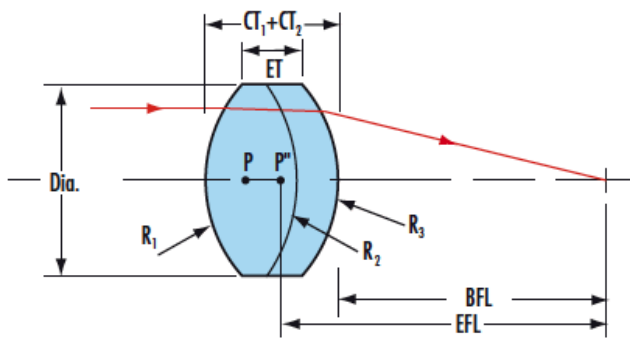
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">Compliant</a>	<b>Reach 224:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>

## 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® MgF<sub>2</sub> 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 MgF<sub>2</sub> which provides less than 1.75% reflectivity from 400 – 700nm. TECHSPEC MgF<sub>2</sub> 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

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