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TECHSPEC® 1mm Dia. x 1.5mm FL, MgF_2 Coated, Achromatic Doublet Lens

MgF_2 Coated Achromatic Lenses

Stock **#65-564** **20+ In Stock**

- 1 + **C$364**.00

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Volume Pricing	
Qty 1-5	**C$364.00** each
Qty 6-25	**C$291.20** each
Qty 26-49	**C$273.00** each
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General

Type:

Achromatic Lens

Physical & Mechanical Properties

Diameter (mm):

1.00 +0.0/-0.025

Clear Aperture CA (mm):
0.5

Centering (arcmin):
30-45

Center Thickness CT (mm):
1.00 ±0.10

Center Thickness CT 1 (mm):
0.50 ±0.05

Center Thickness CT 2 (mm):
0.50 ±0.05

Edge Thickness ET (mm):
0.80

Bevel:
Protective as needed

Optical Properties

Effective Focal Length EFL (mm):
1.50

Focal Length Tolerance (%):
±2

Back Focal Length BFL (mm):
0.92

Focal Length Specification Wavelength (nm):
587.6

Radius R_1 (mm):
0.80

Radius R_2 (mm):
-0.80

Radius R_3 (mm):
-4.50

Substrate:
N-PSK53A / N-LASF9

Surface Quality:
20-10

f/#:
1.5

Numerical Aperture NA:
0.33

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

Reach 224:
Compliant

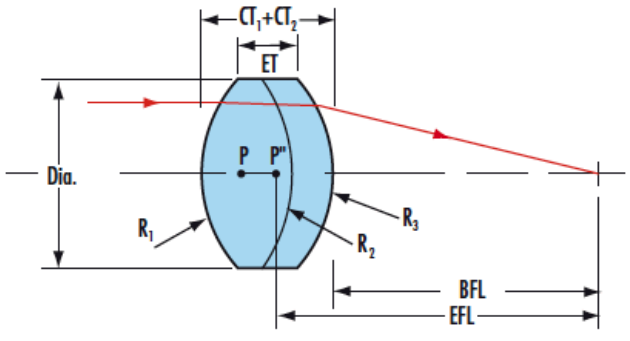
Certificate of Conformance:
View

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

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