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# TECHSPEC® 8mm Dia x 12.5mm EFL Hastings Triplet Achromatic Lens

Stock **#13-521** **20+ In Stock**

- 1 + **S$187.60**

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Product Downloads

## General

**Type:**

Achromatic Triplet Lens

## Physical & Mechanical Properties

**Diameter (mm):**

8.00 +0.0/-0.025

**Centering (arcmin):**

<3

**Center Thickness CT (mm):**
7.23

**Center Thickness A (mm):**
5.23

**Center Thickness B (mm):**
1.00

**Radius $R_4$ (mm):**
-9.395

**Edge Thickness ET (mm):**
5.44

**Bevel:**
Protective as needed

## Optical Properties

**Effective Focal Length EFL (mm):**
12.50

**Focal Length Tolerance (%):**
±2

**Back Focal Length BFL (mm):**
9.82

**Focal Length Specification Wavelength (nm):**
587.6

**Radius $R_1$ (mm):**
9.40

**Radius $R_2$ (mm):**
4.805

**Radius $R_3$ (mm):**
-4.805

**Substrate:**
N-F2 / N-BK7 / N-F2

**Surface Quality:**
40-20

**f/#:**
1.56

**Numerical Aperture NA:**
0.32

**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 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.

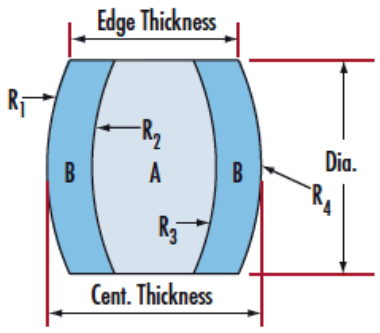
# Product Details

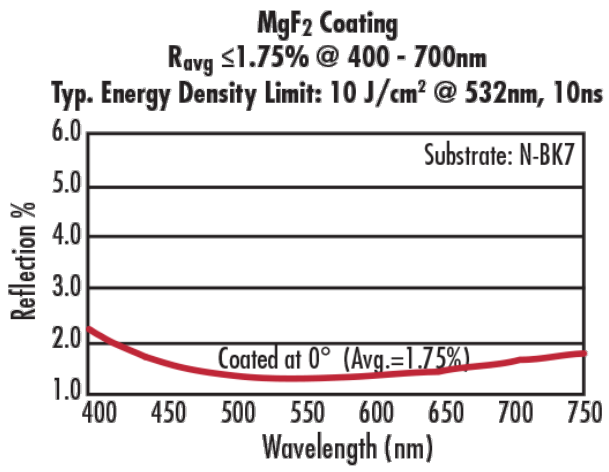
- Unique, 3-Element Design
- $MgF_2$ Coated
- Steinheil Triplet Achromatic Lenses also Available

TECHSPEC® Hastings Triplet Achromatic Lenses feature a unique, three-element design that provides distortion free, color-correct viewing. These lenses are computer designed to interact with each other, contributing to the reduction or elimination of “pincushion” distortion, in addition to chromatic and spherical aberrations. TECHSPEC® Hastings Triplet Achromatic Lenses are composed of two concave meniscus elements cemented to a double-

convex lens. These lenses are AR coated with MgF2, making them ideal for performance in the VIS range.

## Technical Information




## Coating Curves

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