

**TECHSPEC® 20mm Dia. x -20mm FL, MgF<sub>2</sub> Coated, Double-Concave Lens**



Stock #32-991 **20+ In Stock**

[Other Coating Options](#)

1  **\$58<sup>10</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1-9	<b>\$58.10</b> each
Qty 10-25	<b>\$52.15</b> each
Qty 26-49	<b>\$46.55</b> each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**SPECIFICATIONS**

**General**

Type:

## Physical &amp; Mechanical Properties

20.00 +0.0/-0.025 **Diameter (mm):**

Protective as needed **Bevel:**

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

±0.10 **Center Thickness Tolerance (mm):**

<1 **Centering (arcmin):**

19.0 **Clear Aperture CA (mm):**

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

## Optical Properties

-20.00 **Effective Focal Length EFL (mm):**

[N-SF11](#) **Substrate:**

1.00 **f#:**

0.50 **Numerical Aperture NA:**

MgF<sub>2</sub> (400-700nm) **Coating:**

400 - 700 **Wavelength Range (nm):**

-20.55 **Back Focal Length BFL (mm):**

R<sub>avg</sub> ≤ 1.75% @ 400 - 700nm **Coating Specification:**

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

±1 **Focal Length Tolerance (%):**

-31.82 **Radius R<sub>1</sub>=R<sub>2</sub> (mm):**

40-20 **Surface Quality:**

10 J/cm<sup>2</sup> @ 532nm, 10ns **Damage Threshold, By Design:**

1.5λ **Power (P-V) @ 632.8nm:**

λ/4 **Irregularity (P-V) @ 632.8nm:**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[Compliant](#) **Reach 219:**

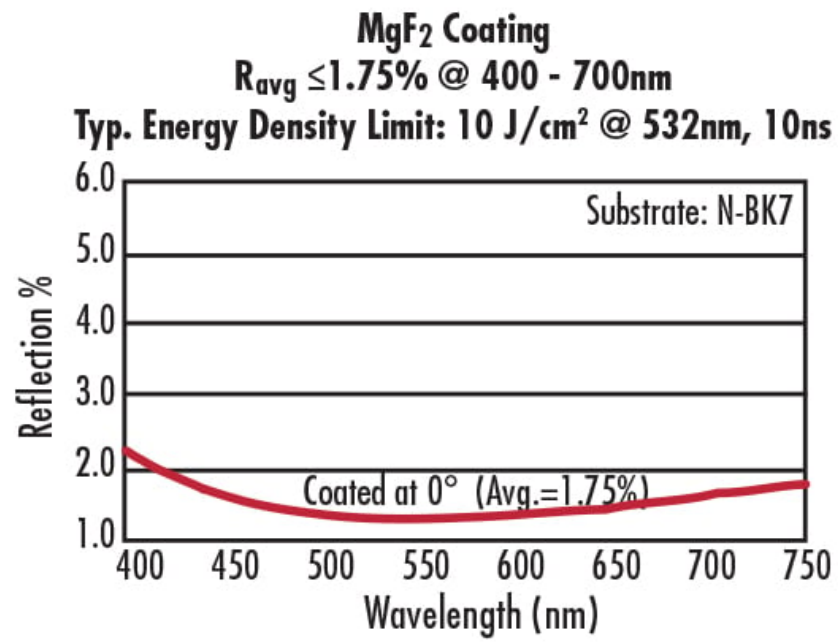
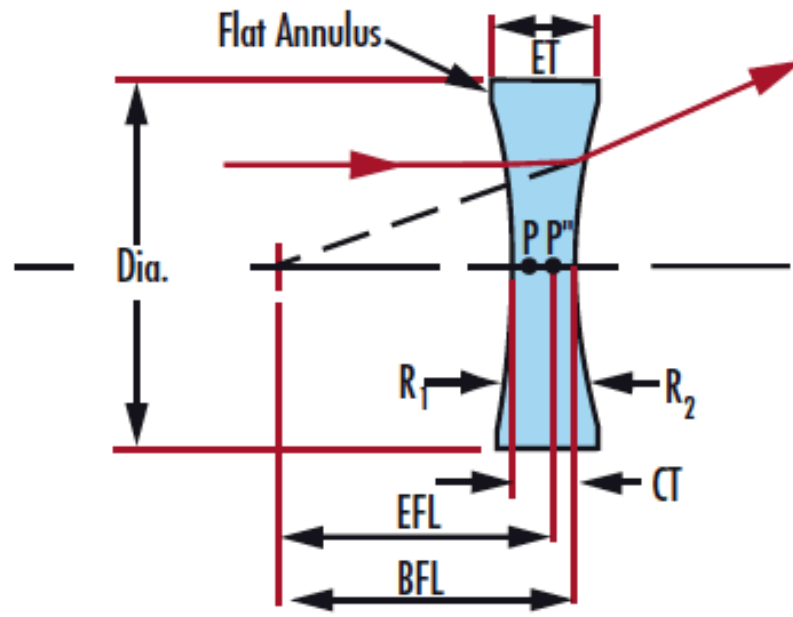
[View](#) **Certificate of Conformance:**

## PRODUCT DETAILS

- AR Coated to Provide <1.75% Reflectance per Surface for 400 - 700nm
- Designed for 0° Angle of Incidence
- Various Coating Options: [Uncoated](#), [VIS-EXT](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), and [NIR II](#)

TECHSPEC® MgF<sub>2</sub> Coated Double-Concave (DCV) Lenses are designed to have two inward curved surfaces and a negative focal length similar to Plano-Concave (PCV) lenses. These lenses can be used for balancing aberrations created by other lenses within a system due to their negative spherical aberration. Double-Concave (DCV) lenses are commonly used in a variety of applications including image reduction, beam expansion and telescopes. TECHSPEC® MgF<sub>2</sub> Coated Double-Concave (DCV) Lenses are ideal for broadband applications. These lenses are also available in [Uncoated](#), [VIS-EXT](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), or with [NIR II](#) AR coating options.

## 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