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TECHSPEC<sup>®</sup> 12mm Dia. x -12mm FL, MgF<sub>2</sub> Coated, Double-Concave Lens



Stock **#32-989** 20+ In Stock

[Other Coating Options](#)

-

1

+

₹2,958

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | ₹2,958 each                   |
| Qty 10-25      | ₹2,647 each                   |
| Qty 26-49      | ₹2,374 each                   |
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Product Downloads

General

Type:

Double-Concave Lens

Physical & Mechanical Properties

Diameter (mm):

12.00 +0.0/-0.025

|                                       |                                             |
|---------------------------------------|---------------------------------------------|
| Protective as needed                  | Bevel:                                      |
| 3.00                                  | Center Thickness CT (mm):                   |
| ±0.05                                 | Center Thickness Tolerance (mm):            |
| <1                                    | Centering (arcmin):                         |
| 11.0                                  | Clear Aperture CA (mm):                     |
| 4.71                                  | Edge Thickness ET (mm):                     |
| Optical Properties                    |                                             |
| -12.00                                | 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):                      |
| -12.81                                | 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 (%):                 |
| -19.47                                | 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:                 |
| Japan                                 | Country of Origin:                          |
| Edmund Optics India Private Limited   | Imported By:                                |

## 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](#).

## Product Details

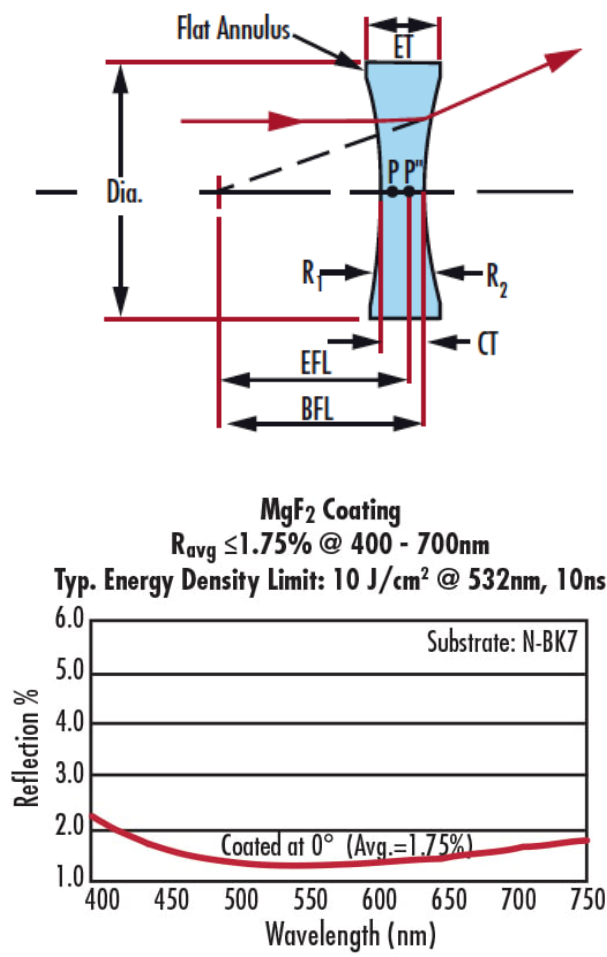
- AR Coated to Provide <1.75% Reflectance per Surface for 400 - 700nm
- Designed for 0° Angle of Incidence

• 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

Compatible Mounts