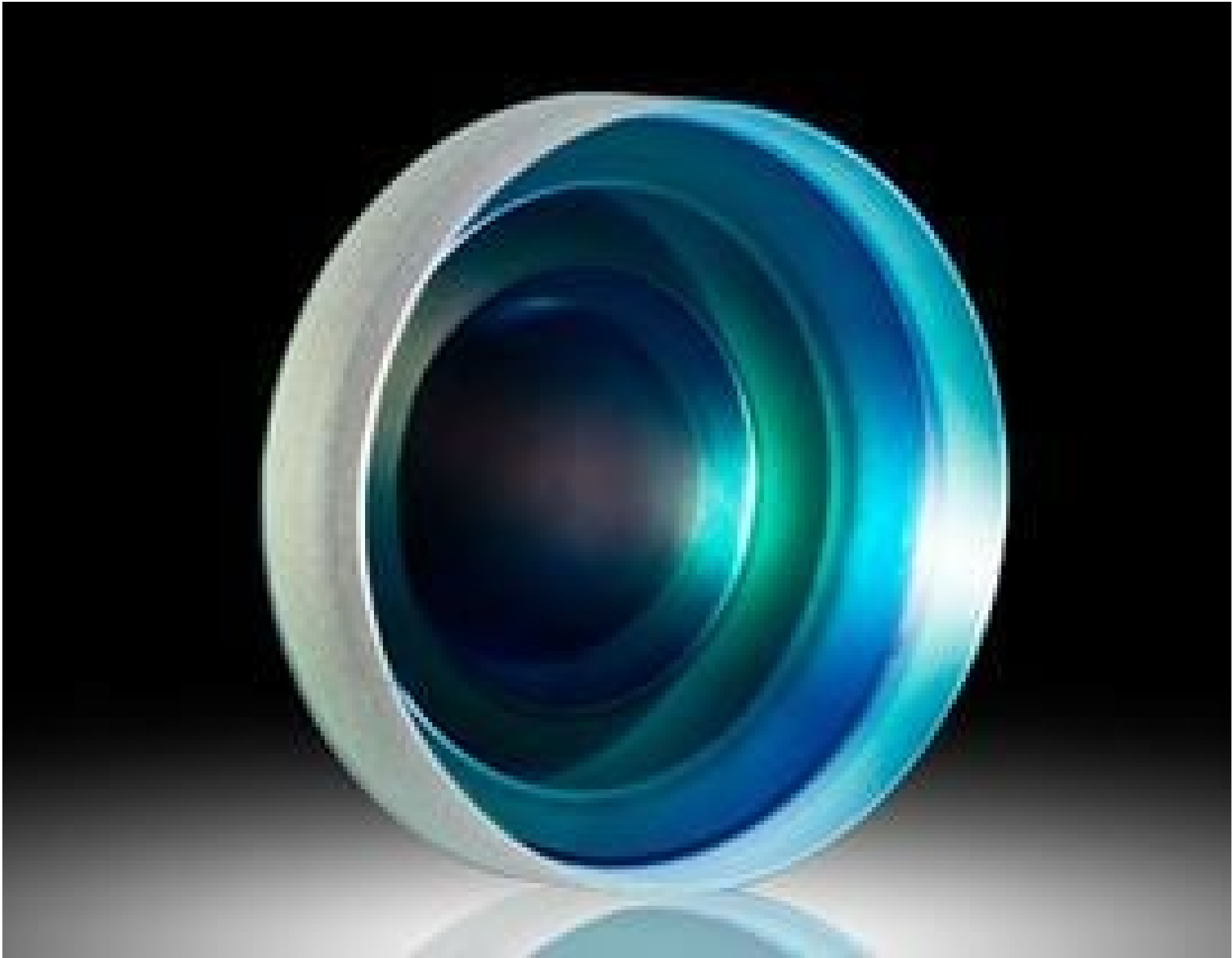


TECHSPEC<sup>®</sup> 12mm Dia. x -24mm FL, NIR II Coated, Double-Concave Lens



Stock **#68-013** **6 In Stock**

☐ [Other Coating Options](#)

-

1

+

A\$75<sup>20</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | A\$75.20 each                 |
| Qty 10-25      | A\$67.20 each                 |
| Qty 26-49      | A\$60.40 each                 |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

SPECIFICATIONS

General

Type:

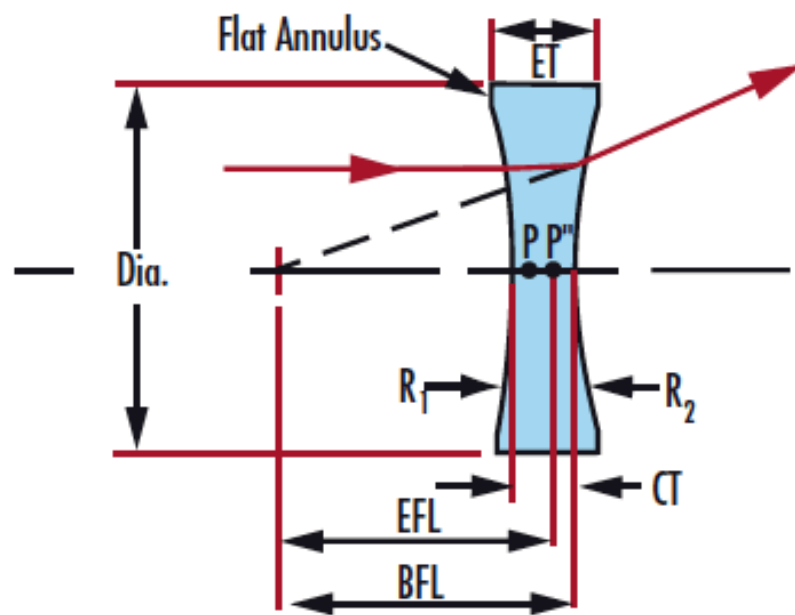
|                                                                                                                        |                                                   |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Double-Concave Lens                                                                                                    |                                                   |
| Physical & Mechanical Properties                                                                                       |                                                   |
| 12.00 +0.0/-0.025                                                                                                      | Diameter (mm):                                    |
| 2.00                                                                                                                   | Center Thickness CT (mm):                         |
| ±0.05                                                                                                                  | Center Thickness Tolerance (mm):                  |
| <1                                                                                                                     | Centering (arcmin):                               |
| 11.00                                                                                                                  | Clear Aperture CA (mm):                           |
| 3.31                                                                                                                   | Edge Thickness ET (mm):                           |
| Optical Properties                                                                                                     |                                                   |
| -24.00                                                                                                                 | Effective Focal Length EFL (mm):                  |
| N-BK7                                                                                                                  | Substrate: <input type="text"/>                   |
| 2.00                                                                                                                   | f/#:                                              |
| 0.25                                                                                                                   | Numerical Aperture NA:                            |
| NIR II (750-1550nm)                                                                                                    | Coating:                                          |
| 750 - 1550                                                                                                             | Wavelength Range (nm):                            |
| -24.65                                                                                                                 | Back Focal Length BFL (mm):                       |
| R <sub>abs</sub> ≤1.5% @ 750 - 800nm<br>R <sub>abs</sub> ≤1.0% @ 800 - 1550nm<br>R <sub>avg</sub> ≤0.7% @ 750 - 1550nm | Coating Specification:                            |
| 587.6                                                                                                                  | Focal Length Specification Wavelength (nm):       |
| ±1.00                                                                                                                  | Focal Length Tolerance (%):                       |
| -25.14                                                                                                                 | Radius R <sub>1</sub> =R <sub>2</sub> (mm):       |
| 40-20                                                                                                                  | Surface Quality:                                  |
| 8 J/cm <sup>2</sup> @ 1064nm, 10ns                                                                                     | Damage Threshold, Reference: <input type="text"/> |
| 1.5λ                                                                                                                   | Power (P-V) @ 632.8nm:                            |
| λ/4                                                                                                                    | Irregularity (P-V) @ 632.8nm:                     |
| Regulatory Compliance                                                                                                  |                                                   |
| Compliant                                                                                                              | RoHS 2015:                                        |
| View                                                                                                                   | Certificate of Conformance:                       |
| Compliant                                                                                                              | Reach 235:                                        |

## PRODUCT DETAILS

- AR Coated to Provide <0.7% Reflectance per Surface for 750 - 1550nm
- Double-Concave Lenses Have Two Inward Curved Surfaces and a Negative Focal Length
- Used for Image Reduction and to Spread Light
- Various Coating Options: [Uncoated](#), [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), and [NIR I](#)

TECHSPEC® NIR II 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® NIR II Coated Double-Concave (DCV) Lenses offer optimal performance in the 750nm to 1550nm range. These lenses are also available in [Uncoated](#), [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), or with [NIR I](#) AR coating options.

## TECHNICAL INFORMATION



## 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