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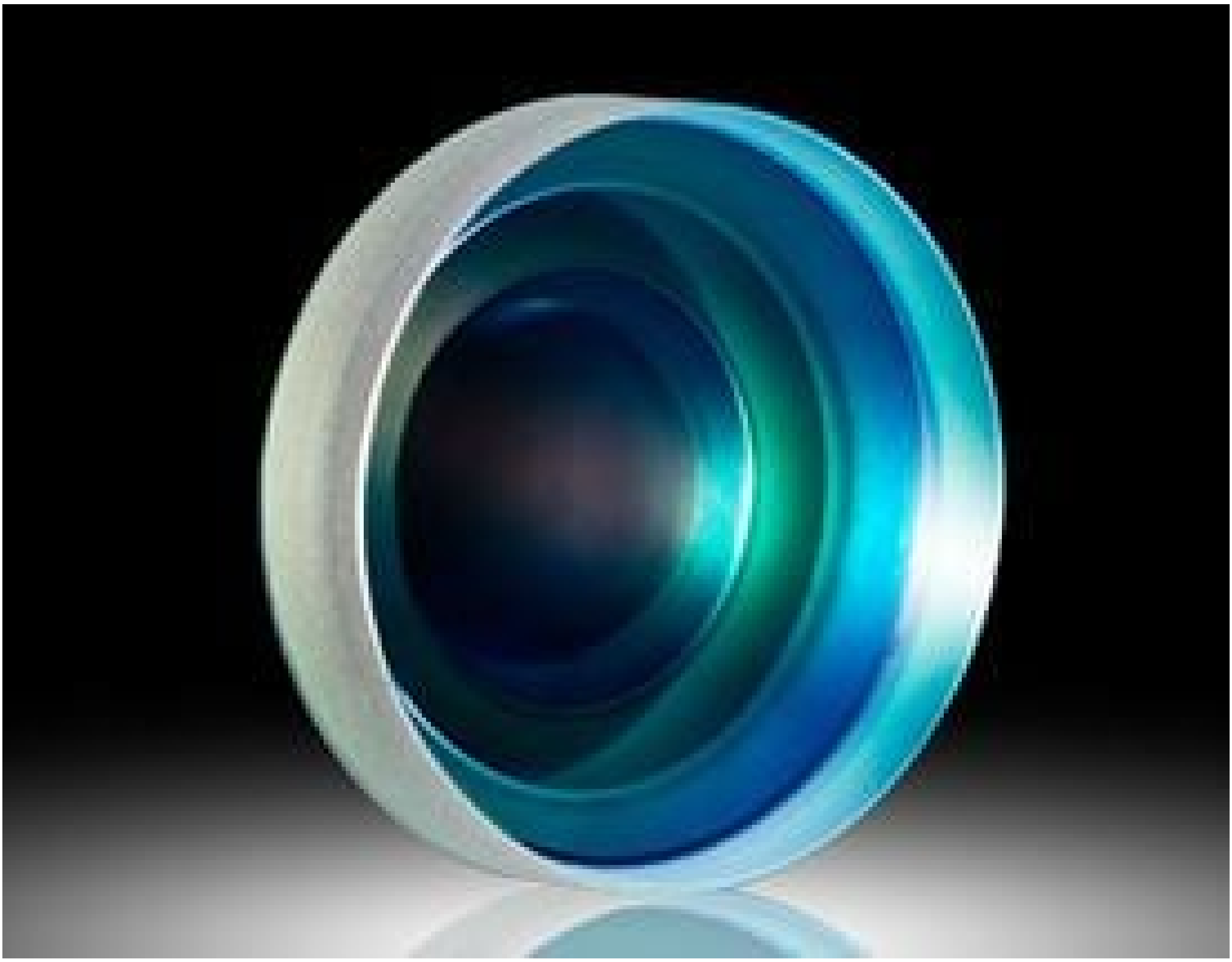
TECHSPEC® 9mm Dia. x -18mm FL, NIR II, Inked, Double-Concave Lens



Stock **#68-010-INK** CONTACT US

Other Coating Options

- 1 + C$77.70

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Volume Pricing	
Qty 1-9	**C$77.70** each
Qty 10-25	**C$69.65** each
Qty 26-49	**C$61.95** each
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Product Downloads

General

Type:

Double-Concave Lens

Physical & Mechanical Properties

Diameter (mm):

9.00 ±0.025

Center Thickness CT (mm):
1.50

Center Thickness Tolerance (mm):
±0.05

Centering (arcmin):
<1

Clear Aperture CA (mm):
8.10

Edge Thickness ET (mm):
2.45

Optical Properties

Effective Focal Length EFL (mm):
-18.00

Substrate:
N-BK7

f/#:
2.00

Numerical Aperture NA:
0.25

Coating:
NIR II (750-1550nm)

Wavelength Range (nm):
750 - 1550

Back Focal Length BFL (mm):
-18.49

Coating Specification:
R_{abs} ≤1.5% @ 750 - 800nm
R_{abs} ≤1.0% @ 800 - 1550nm
R_{avg} ≤0.7% @ 750 - 1550nm

Focal Length Specification Wavelength (nm):
587.6

Focal Length Tolerance (%):
±1.00

Radius R_1=-R_2 (mm):
-18.86

Surface Quality:
40-20

Damage Threshold, By Design:
8 J/cm^2 @ 1064nm, 10ns

Power (P-V) @ 632.8nm:
1.5λ

Irregularity (P-V) @ 632.8nm:
λ/4

Regulatory Compliance

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

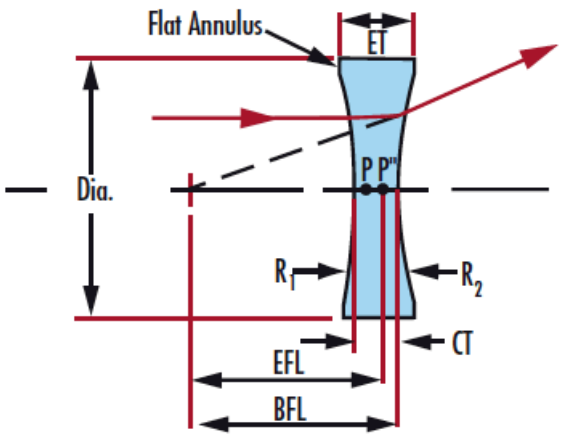
Learn more about our custom manufacturing capabilities or submit an inquiry here.

Product Details

- 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_2, 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_2, VIS 0°, VIS-NIR, or with NIR I AR coating options.

Technical Information



Compatible Mounts

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