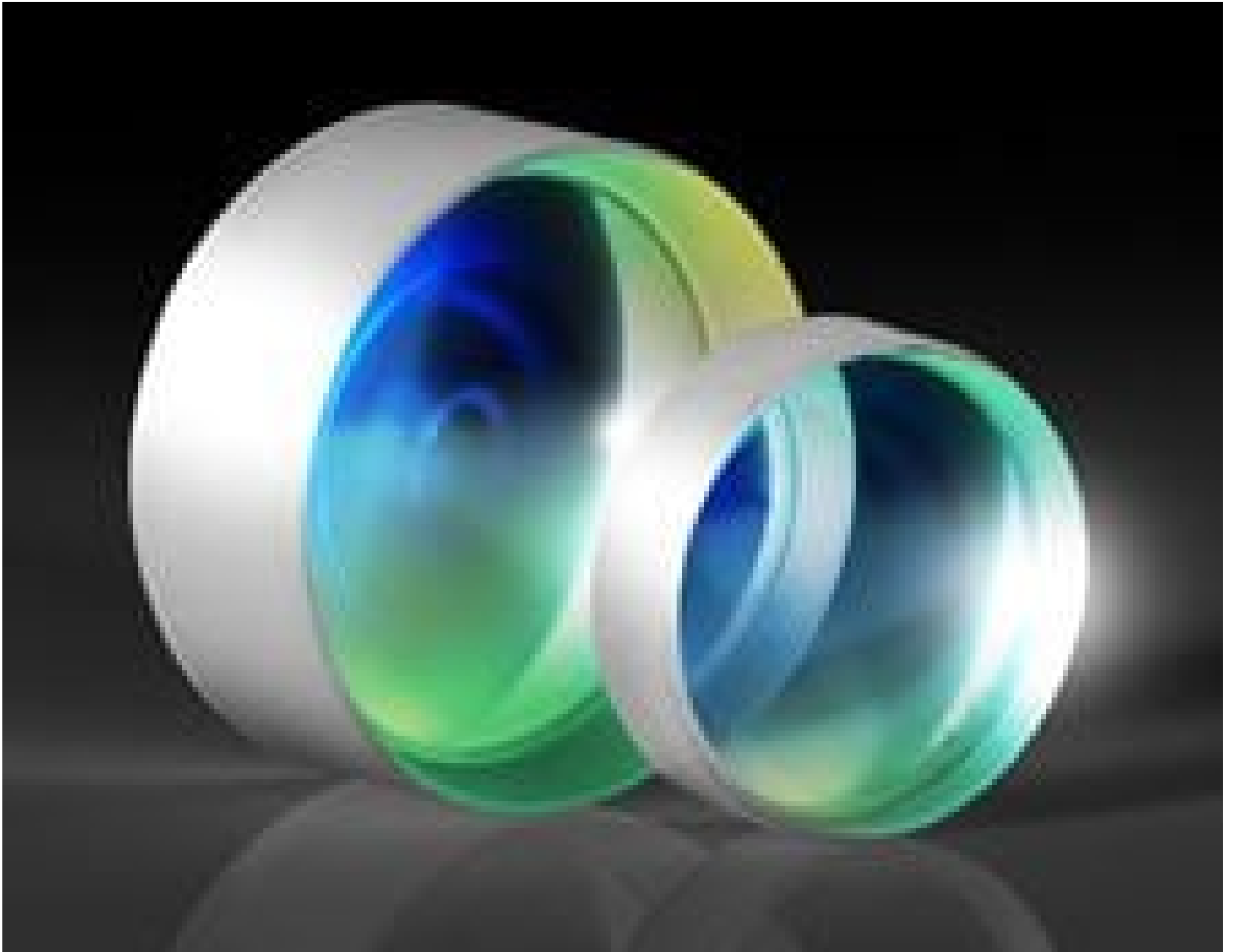


**TECHSPEC® 20mm Dia. x -20mm FL, NIR I, Inked, Double-Concave Lens**



Stock **#49-549-INK** [CONTACT US](#)

[Other Coating Options](#)

1  **C\$83<sup>30</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1-9	<b>C\$83.30</b> each
Qty 10-25	<b>C\$74.90</b> each
Qty 26-49	<b>C\$66.85</b> each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**SPECIFICATIONS**

**General**

Type:

## Physical & Mechanical Properties

20.00 ±0.025 **Diameter (mm):**

Protective as needed **Bevel:**

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

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

<1 **Centering (arcmin):**

19.00 **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:**

NIR I (600-1050nm) **Coating:**

600 - 1050 **Wavelength Range (nm):**

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

$R_{avg} \leq 0.5\%$  @ 600 - 1050nm **Coating Specification:**

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

±1 **Focal Length Tolerance (%):**

-31.82 **Radius  $R_1=R_2$  (mm):**

40-20 **Surface Quality:**

$7 \text{ J/cm}^2$  @ 1064nm, 10ns **Damage Threshold, By Design:**

1.5λ **Power (P-V) @ 632.8nm:**

λ/4 **Irregularity (P-V) @ 632.8nm:**

## Regulatory Compliance

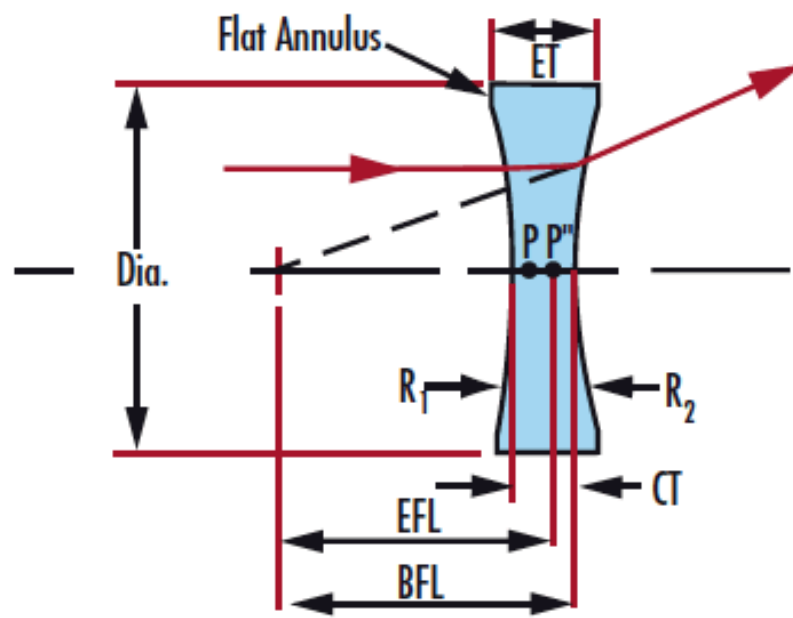
[View](#) **Certificate of Conformance:**

## PRODUCT DETAILS

- AR Coated to Provide <0.5% Reflectance per Surface for 600 - 1050nm
- Designed for 0° Angle of Incidence
- Various Coating Options: [Uncoated](#), [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), and [NIR II](#)

TECHSPEC® NIR I 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 I Coated Double-Concave (DCV) Lenses offer optimal performance in the 600nm to 1050nm range. These lenses are also available [Uncoated](#), [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), or with [NIR II](#) 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