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TECHSPEC<sup>®</sup> 6mm Dia. x -9mm FL, NIR I, Inked, Double-Concave Lens



Stock **#49-541-INK** [CONTACT US](#)

☐ [Other Coating Options](#)

-

1

+

€54<sup>.50</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | €54,50 each                   |
| Qty 10-25      | €49,00 each                   |
| Qty 26-49      | €43,50 each                   |
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Product Downloads

General

Type:

Double-Concave Lens

Physical & Mechanical Properties

|                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| 6.00 ±0.025                           | Diameter (mm):                                    |
| Protective as needed                  | Bevel:                                            |
| 1.00                                  | Center Thickness CT (mm):                         |
| ±0.05                                 | Center Thickness Tolerance (mm):                  |
| <3                                    | Centering (arcmin):                               |
| 5.4                                   | Clear Aperture CA (mm):                           |
| 1.79                                  | Edge Thickness ET (mm):                           |
| Optical Properties                    |                                                   |
| -9.00                                 | Effective Focal Length EFL (mm):                  |
| N-BK7                                 | Substrate: <input type="text"/>                   |
| 1.5                                   | f/#:                                              |
| 0.33                                  | Numerical Aperture NA:                            |
| NIR I (600-1050nm)                    | Coating:                                          |
| 600 - 1050                            | Wavelength Range (nm):                            |
| -9.32                                 | Back Focal Length BFL (mm):                       |
| R <sub>avg</sub> ≤0.5% @ 600 - 1050nm | Coating Specification:                            |
| 587.6                                 | Focal Length Specification Wavelength (nm):       |
| ±1                                    | Focal Length Tolerance (%):                       |
| -9.47                                 | Radius R <sub>1</sub> =R <sub>2</sub> (mm):       |
| 40-20                                 | Surface Quality:                                  |
| 7 J/cm² @ 1064nm, 10ns                | Damage Threshold, By Design: <input type="text"/> |
| 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