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TECHSPEC<sup>®</sup> 9mm Dia. x -18mm FL, VIS-NIR Coated, Double-Concave Lens



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-

1

+

€47<sup>.50</sup>

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| Volume Pricing |                               |
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| Qty 1-9        | €47,50 each                   |
| Qty 10-25      | €42,50 each                   |
| Qty 26-49      | €38,00 each                   |
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Product Downloads

General

Type:  
Double-Concave Lens

Physical & Mechanical Properties

|                                                                                                                    |                                                       |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 9.00 +0.0/-0.025                                                                                                   | Diameter (mm):                                        |
| Protective as needed                                                                                               | Bevel:                                                |
| 1.50                                                                                                               | Center Thickness CT (mm):                             |
| ±0.05                                                                                                              | Center Thickness Tolerance (mm):                      |
| <1                                                                                                                 | Centering (arcmin):                                   |
| 8.1                                                                                                                | Clear Aperture CA (mm):                               |
| 2.45                                                                                                               | Edge Thickness ET (mm):                               |
| Optical Properties                                                                                                 |                                                       |
| -18.00                                                                                                             | Effective Focal Length EFL (mm):                      |
| N-BK7                                                                                                              | Substrate: <input type="checkbox"/>                   |
| 2.00                                                                                                               | f/#:                                                  |
| 0.25                                                                                                               | Numerical Aperture NA:                                |
| VIS-NIR (400-1000nm)                                                                                               | Coating:                                              |
| 400 - 1000                                                                                                         | Wavelength Range (nm):                                |
| -18.49                                                                                                             | Back Focal Length BFL (mm):                           |
| R <sub>abs</sub> ≤0.25% @ 880nm<br>R <sub>avg</sub> ≤1.25% @ 400 - 870nm<br>R <sub>avg</sub> ≤1.25% @ 890 - 1000nm | Coating Specification:                                |
| 587.6                                                                                                              | Focal Length Specification Wavelength (nm):           |
| ±1                                                                                                                 | Focal Length Tolerance (%):                           |
| -18.86                                                                                                             | Radius R <sub>1</sub> =R <sub>2</sub> (mm):           |
| 40-20                                                                                                              | Surface Quality:                                      |
| 5 J/cm² @ 532nm, 10ns                                                                                              | Damage Threshold, By Design: <input type="checkbox"/> |
| 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 <1.25% Reflectance per Surface for 400 - 1000nm
- <0.25% Reflectance @ 880nm
- Designed for 0° Angle of Incidence
- Various Coating Options: [Uncoated](#), [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [NIR I](#), and [NIR II](#)

TECHSPEC® VIS-NIR 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® VIS-NIR Coated Double-Concave (DCV) Lenses are optimized for transmission (>99%) in the near-infrared. These lenses are also available [Uncoated](#), [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [NIR I](#), or with [NIR II](#) AR coating options.

## Technical Information



## Coating Curves

### 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