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TECHSPEC<sup>®</sup> 20mm Dia. x -20mm FL, VIS-NIR Coated, Double-Concave Lens



Stock **#45-929** **6 In Stock**

☐ [Other Coating Options](#)

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1

+

C\$72<sup>.10</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | C\$72.10 each                 |
| Qty 10-25      | C\$64.75 each                 |
| Qty 26-49      | C\$57.75 each                 |
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Product Downloads

General

Type:

Double-Concave Lens

Physical & Mechanical Properties

Diameter (mm):

20.00 +0.0/-0.025

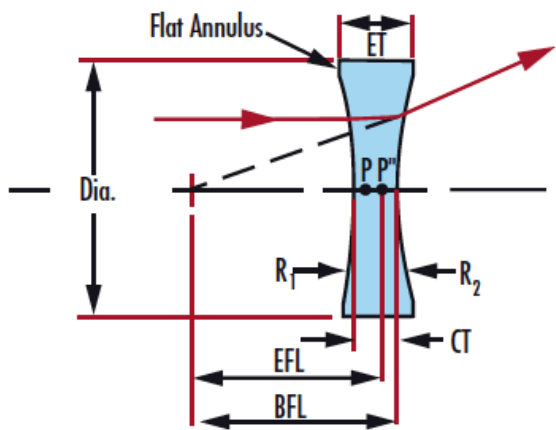
|                                                                                                                    |                                             |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 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:                      |
| VIS-NIR (400-1000nm)                                                                                               | Coating:                                    |
| 400 - 1000                                                                                                         | Wavelength Range (nm):                      |
| -20.55                                                                                                             | 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 (%):                 |
| -31.82                                                                                                             | Radius R <sub>1</sub> =R <sub>2</sub> (mm): |
| 40-20                                                                                                              | Surface Quality:                            |
| 5 J/cm² @ 532nm, 10ns                                                                                              | Damage Threshold, By Design: □              |
| 1.5λ                                                                                                               | Power (P-V) @ 632.8nm:                      |
| λ/4                                                                                                                | Irregularity (P-V) @ 632.8nm:               |
| Regulatory Compliance                                                                                              |                                             |
| Compliant                                                                                                          | RoHS 2015:                                  |
| Compliant                                                                                                          | Reach 219:                                  |
| View                                                                                                               | Certificate of Conformance:                 |

## 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

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