

TECHSPEC<sup>®</sup> 6mm Dia. x -12mm FL, Uncoated, Double-Concave Lens



Stock **#48-681** 20+ In Stock

[Other Coating Options](#)

-

1

+

£24<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | £24.60 each                   |
| Qty 10-25      | £22.20 each                   |
| Qty 26-49      | £19.80 each                   |
| Need More?     | <a href="#">Request Quote</a> |

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Double-Concave Lens

Type:

Physical & Mechanical Properties

|                      |                                  |
|----------------------|----------------------------------|
| 6.00 +0.0/-0.025     | Diameter (mm):                   |
| Protective as needed | Bevel:                           |
| 1.00                 | Center Thickness CT (mm):        |
| ±0.05                | Center Thickness Tolerance (mm): |
| <1                   | Centering (arcmin):              |
| 5.4                  | Clear Aperture CA (mm):          |
| 1.59                 | Edge Thickness ET (mm):          |

Optical Properties

|            |                                             |
|------------|---------------------------------------------|
| -12.00     | Effective Focal Length EFL (mm):            |
| N-BK7      | Substrate: <input type="checkbox"/>         |
| 2.00       | f#:                                         |
| 0.25       | Numerical Aperture NA:                      |
| Uncoated   | Coating:                                    |
| 350 - 2200 | Wavelength Range (nm):                      |
| -12.33     | Back Focal Length BFL (mm):                 |
| 587.6      | Focal Length Specification Wavelength (nm): |
| ±1         | Focal Length Tolerance (%):                 |
| -12.57     | Radius R <sub>1</sub> =R <sub>2</sub> (mm): |
| 40-20      | Surface Quality:                            |
| 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

- Wavelength Range of 350-2200nm
  - Precision Diameter and Centration Tolerances Allow for Easy OEM Integration
  - Wide Variety of Diameters and Focal Lengths
  - Additional AR Coating Options Available: [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), and [NIR II](#)
- TECHSPEC® Uncoated 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® Uncoated Double-Concave (DCV) Lenses offer optimal performance in the 350nm to 2200nm range. These lenses are also available [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