

[See all 13 Products in Family](#)

TECHSPEC® 12mm Dia. x -24mm FL, Uncoated, Double-Concave Lens



Stock **#48-683** **20+ In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ **\$\$47⁰⁰**

ADD TO CART

Volume Pricing	
Qty 1-9	\$\$47.60 each
Qty 10-25	\$\$43.05 each
Qty 26-49	\$\$38.50 each
Need More?	Request Quote

Product Downloads

General

Double-Concave Lens **Type:**

Physical & Mechanical Properties

12.00 +0.0/-0.025 **Diameter (mm):**

Protective as needed	Bevel:
Center Thickness CT (mm):	2.00
Center Thickness Tolerance (mm):	±0.05
Centering (arcmin):	<1
Clear Aperture CA (mm):	11.00
Edge Thickness ET (mm):	3.31

Optical Properties

Effective Focal Length EFL (mm):	-24.00
Substrate:	N-BK7
f#:	2.00
Numerical Aperture NA:	0.25
Coating:	Uncoated
Wavelength Range (nm):	350 - 2200
Back Focal Length BFL (mm):	-24.65
Focal Length Specification Wavelength (nm):	587.6
Focal Length Tolerance (%):	±1
Radius R ₁ =R ₂ (mm):	-25.14
Surface Quality:	40-20
Power (P-V) @ 632.8nm:	1.5λ
Irregularity (P-V) @ 632.8nm:	λ/4

Regulatory Compliance

RoHS 2015:	Compliant
Reach 219:	Compliant
Certificate of Conformance:	View

Need different specs or modifications?

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](#).

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](#), [MgF₂](#), [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](#), [MgF₂](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), or with [NIR II](#) AR coating options.

Technical Information



Compatible Mounts