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**TECHSPEC® 9mm Dia. x -12mm FL, Uncoated, Double-Concave Lens**



Stock **#48-933** **20+ In Stock**

[Other Coating Options](#)

- 1 + **\$44<sup>45</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1-9	<b>\$44.45</b> each
Qty 10-25	<b>\$40.25</b> each
Qty 26-49	<b>\$35.70</b> each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Double-Concave Lens **Type:**

**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):
2.43	Edge Thickness ET (mm):

## Optical Properties

-12.00	Effective Focal Length EFL (mm):
N-SF11	Substrate: <input type="checkbox"/>
1.33	f#:
0.38	Numerical Aperture NA:
Uncoated	Coating:
400 - 2500	Wavelength Range (nm):
-12.41	Back Focal Length BFL (mm):
587.6	Focal Length Specification Wavelength (nm):
±1	Focal Length Tolerance (%):
-19.16	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:

### 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](#), [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



## Compatible Mounts