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TECHSPEC® 9mm Dia. x -18mm FL, MgF₂ Coated, Double-Concave Lens



Stock **#48-688** **20+ In Stock**

[Other Coating Options](#)

- 1 + A\$62.⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-9	A\$62.80 each
Qty 10-25	A\$56.40 each
Qty 26-49	A\$50.00 each
Need More?	Request Quote

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):
2.45	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:
MgF ₂ (400-700nm)	Coating:
400 - 700	Wavelength Range (nm):
-18.49	Back Focal Length BFL (mm):
R _{avg} ≤ 1.75% @ 400 - 700nm	Coating Specification:
587.6	Focal Length Specification Wavelength (nm):
±1	Focal Length Tolerance (%):
-18.86	Radius R₁=R₂ (mm):
40-20	Surface Quality:
10 J/cm ² @ 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:

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

- AR Coated to Provide <1.75% Reflectance per Surface for 400 - 700nm
- Designed for 0° Angle of Incidence
- Various Coating Options: [Uncoated](#), [VIS-EXT](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), and [NIR II](#)

TECHSPEC® MgF₂ 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® MgF₂ Coated Double-Concave (DCV) Lenses are ideal for broadband applications. These lenses are also available in [Uncoated](#), [VIS-EXT](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), or with [NIR II](#) AR coating options.

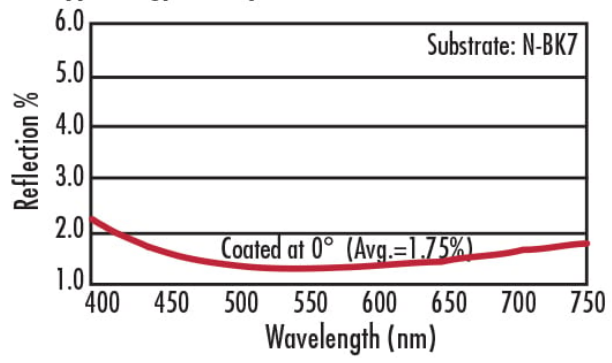
Technical Information



MgF₂ Coating

$R_{avg} \leq 1.75\%$ @ 400 - 700nm

Typ. Energy Density Limit: 10 J/cm² @ 532nm, 10ns



Coating Curves

Compatible Mounts