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TECHSPEC[®] 9mm Dia. x -18mm FL, VIS-NIR Coated, Double-Concave Lens



Stock **#48-700** [CONTACT US](#)

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1

+

A\$76^{.00}

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Volume Pricing	
Qty 1-9	A\$76.00 each
Qty 10-25	A\$68.00 each
Qty 26-49	A\$60.80 each
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General

Type:

Double-Concave Lens

Physical & Mechanical Properties

Diameter (mm):

9.00 +0.0/-0.025

Protective as needed	Bevel:
Center Thickness CT (mm):	1.50
Center Thickness Tolerance (mm):	±0.05
Centering (arcmin):	<1
Clear Aperture CA (mm):	8.1
Edge Thickness ET (mm):	2.45
Optical Properties	
Effective Focal Length EFL (mm):	-18.00
Substrate: □	N-BK7
f/#:	2.00
Numerical Aperture NA:	0.25
Coating:	VIS-NIR (400-1000nm)
Wavelength Range (nm):	400 - 1000
Back Focal Length BFL (mm):	-18.49
Coating Specification:	R _{abs} ≤0.25% @ 880nm R _{avg} ≤1.25% @ 400 - 870nm R _{avg} ≤1.25% @ 890 - 1000nm
Focal Length Specification Wavelength (nm):	587.6
Focal Length Tolerance (%):	±1
Radius R ₁ =R ₂ (mm):	-18.86
Surface Quality:	40-20
Damage Threshold, By Design: □	5 J/cm² @ 532nm, 10ns
Power (P-V) @ 632.8nm:	1.5λ
Irregularity (P-V) @ 632.8nm:	λ/4
Regulatory Compliance	
RoHS 2015:	Compliant
Certificate of Conformance:	View
Reach 235:	Compliant

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](#).

Product Details

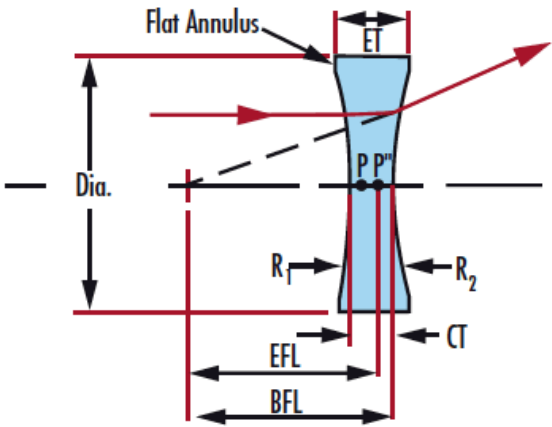
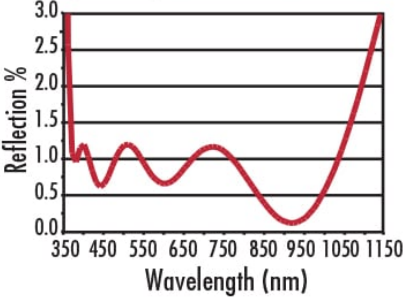
- AR Coated to Provide <1.25% Reflectance per Surface for 400 - 1000nm
- <0.25% Reflectance @ 880nm
- Designed for 0° Angle of Incidence
- Various Coating Options: [Uncoated](#), [VIS-EXT](#), [MgF₂](#), [VIS 0°](#), [NIR I](#), and [NIR II](#)

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

Technical Information

VIS-NIR Coating
R_{avg} ≤0.25% @ 880nm, R_{avg} ≤1.25% @ 400 - 1000nm
Typ. Energy Density Limit: 5 J/cm² @ 532nm, 10ns



Coating Curves

Compatible Mounts