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TECHSPEC[®] 12mm Dia. x -24mm FL, NIR II, Inked, Double-Concave Lens



Stock **#68-013-INK** [CONTACT US](#)

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1

+

C\$81^{.20}

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Volume Pricing	
Qty 1-9	C\$81.20 each
Qty 10-25	C\$72.80 each
Qty 26-49	C\$65.10 each
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Product Downloads

General

Type:

Double-Concave Lens

Physical & Mechanical Properties

Diameter (mm):

12.00 ±0.025

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

Optical Properties	
-24.00	Effective Focal Length EFL (mm):
N-BK7	Substrate:
2.00	f/#:
0.25	Numerical Aperture NA:
NIR II (750-1550nm)	Coating:
750 - 1550	Wavelength Range (nm):
-24.65	Back Focal Length BFL (mm):
R _{abs} ≤1.5% @ 750 - 800nm R _{abs} ≤1.0% @ 800 - 1550nm R _{avg} ≤0.7% @ 750 - 1550nm	Coating Specification:
587.6	Focal Length Specification Wavelength (nm):
±1.00	Focal Length Tolerance (%):
-25.14	Radius R ₁ =R ₂ (mm):
40-20	Surface Quality:
8 J/cm² @ 1064nm, 10ns	Damage Threshold, By Design:
1.5λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:

Regulatory Compliance	
View	Certificate of Conformance:

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](#).

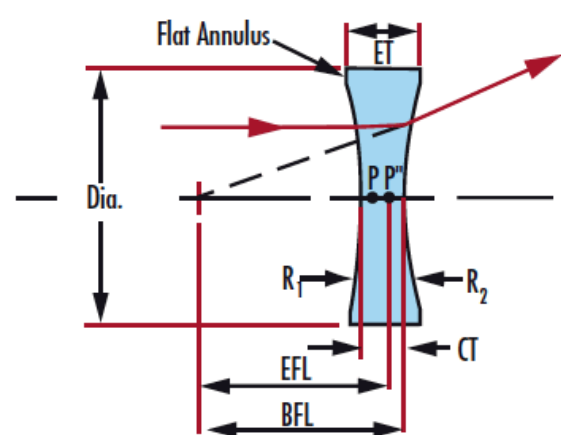
Product Details

- AR Coated to Provide <0.7% Reflectance per Surface for 750 - 1550nm
- Double-Concave Lenses Have Two Inward Curved Surfaces and a Negative Focal Length
- Used for Image Reduction and to Spread Light
- Various Coating Options: [Uncoated](#), [VIS-EXT](#), [MgF₂](#), [VIS 0°](#), [VIS-NIR](#), and [NIR I](#)

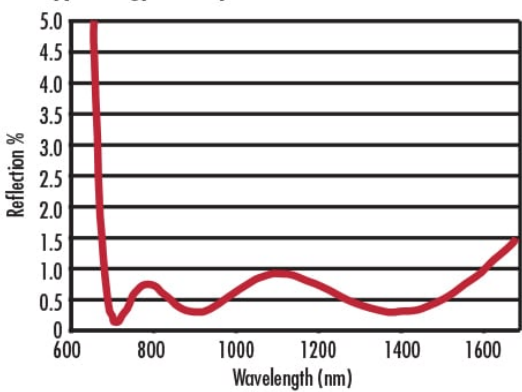
TECHSPEC® NIR II Coated Double-Concave (DCV) Lenses are designed to have two inward curved surfaces and a negative focal length similar to Plano-Concave (PCV) lenses. These lenses can be used for balancing aberrations created by other lenses within a system due to their negative spherical aberration. Double-Concave (DCV) lenses are commonly used in a variety of applications including image reduction, beam expansion and telescopes.

TECHSPEC® NIR II Coated Double-Concave (DCV) Lenses offer optimal performance in the 750nm to 1550nm range. These lenses are also available in [Uncoated](#), [VIS-EXT](#), [MgF₂](#), [VIS 0°](#), [VIS-NIR](#), or with [NIR I](#) AR coating options.

Technical Information



NIR II Coating
 $R_{avg} \leq 0.7\%$ @ 750 - 1550nm, $R_{abs} \leq 1.0\%$ @ 800 - 1550nm
 Typ. Energy Density Limit: 8 J/cm² @ 1064nm, 10ns



Compatible Mounts