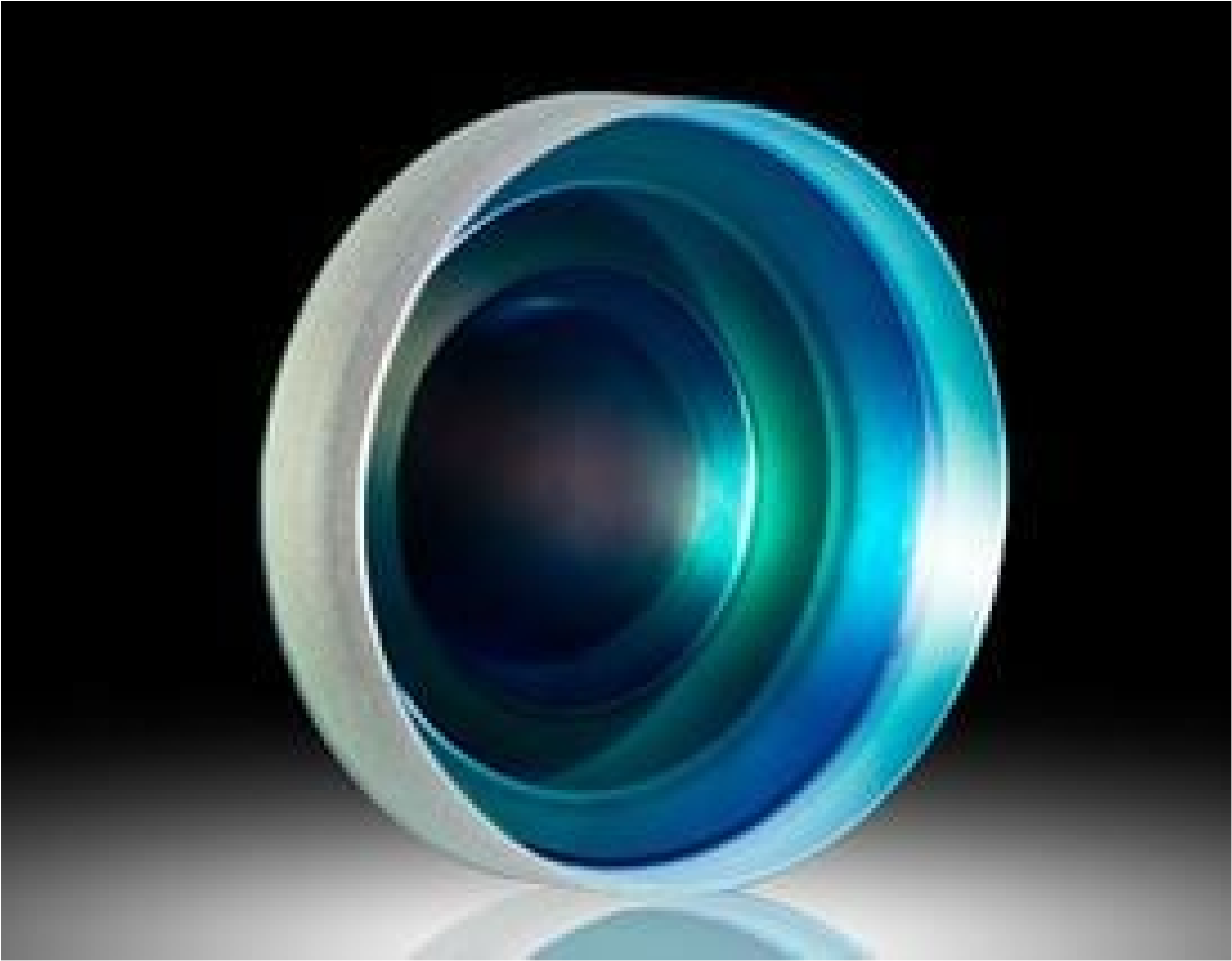


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TECHSPEC[®] 12mm Dia. x -18mm FL, NIR II, Inked, Double-Concave Lens



Stock #68-012-INK

CONTACT US

☐ [Other Coating Options](#)

-

1

+

₹4,770

ADD TO CART

Volume Pricing	
Qty 1-9	₹4,770 each
Qty 10-25	₹4,275 each
Qty 26-49	₹3,825 each
Need More?	Request Quote

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):
3.76	Edge Thickness ET (mm):

Optical Properties	
-18.00	Effective Focal Length EFL (mm):
N-BK7	Substrate:
1.5	f/#:
0.33	Numerical Aperture NA:
NIR II (750-1550nm)	Coating:
750 - 1550	Wavelength Range (nm):
-18.65	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 (%):
-18.94	Radius R ₁ =R ₂ (mm):
40-20	Surface Quality:
8 J/cm ² @ 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:
Japan	Country of Origin:
Edmund Optics India Private Limited	Imported By:

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

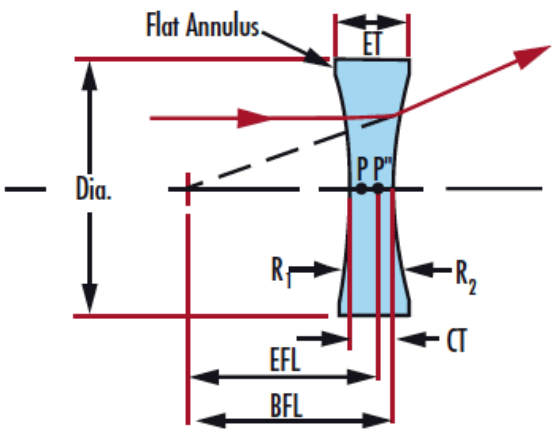
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- AR Coated to Provide <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



Compatible Mounts