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



Stock **#49-547-INK** [CONTACT US](#)

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1 MRP ₹6,160

Price inclusive of all taxes

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Volume Pricing	
Qty 1-9	₹6,160 each
Qty 10-25	₹5,522 each
Qty 26-49	₹4,938 each
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General

Double-Concave Lens **Type:**

Physical & Mechanical Properties

Diameter (mm):

12.00 ±0.025

Bevel:

Protective as needed

Center Thickness CT (mm):

2.00

Center Thickness Tolerance (mm):

±0.05

Centering (arcmin):

<1

Clear Aperture CA (mm):

11.00

Edge Thickness ET (mm):

3.76

Optical Properties

Effective Focal Length EFL (mm):

-18.00

Substrate:

N-BK7

f#:

1.5

Numerical Aperture NA:

0.33

Coating:

NIR I (600-1050nm)

Wavelength Range (nm):

600 - 1050

Back Focal Length BFL (mm):

-18.65

Coating Specification:

R_{avg} ≤0.5% @ 600 - 1050nm

Focal Length Specification Wavelength (nm):

587.6

Focal Length Tolerance (%):

±1

Radius R₁=R₂ (mm):

-18.94

Surface Quality:

40-20

Damage Threshold, By Design:

7 J/cm² @ 1064nm, 10ns

Power (P-V) @ 632.8nm:

1.5λ

Irregularity (P-V) @ 632.8nm:

λ/4

Regulatory Compliance

Certificate of Conformance:

[View](#)

Country of Origin:

Japan

Imported By:

Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91- 80-6845 0000

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

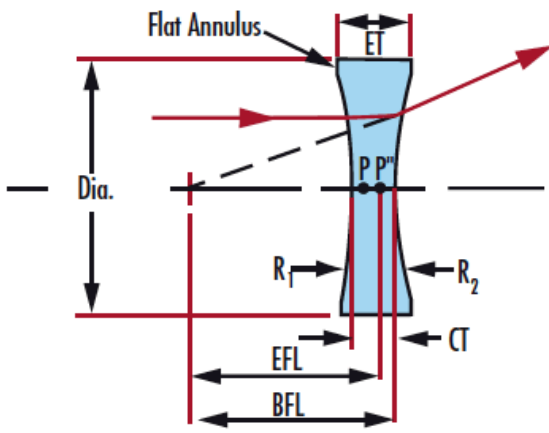
- AR Coated to Provide <0.5% Reflectance per Surface for 600 - 1050nm
- Designed for 0° Angle of Incidence

- Various Coating Options: [Uncoated](#), [VIS-EXT](#), [MgF₂](#), [VIS 0°](#), [VIS-NIR](#), and [NIR II](#)

TECHSPEC® NIR I 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 I Coated Double-Concave (DCV) Lenses offer optimal performance in the 600nm to 1050nm range. These lenses are also available [Uncoated](#), [VIS-EXT](#), [MgF₂](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), or with [NIR II](#) AR coating options.

Technical Information



Compatible Mounts