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TECHSPEC® 12mm Dia. x -18mm FL, VIS-NIR Coated, Double-Concave Lens

Stock **#48-943** **5 In Stock**

Other Coating Options

- 1 + **MRP ₹5,196**

Price inclusive of all taxes

ADD TO CART

Volume Pricing	
Qty 1-9	**₹5,196** each
Qty 10-25	**₹4,667** each
Qty 26-49	**₹4,162** each
Need More?	Request Quote

Product Downloads

General

Type:

Double-Concave Lens

Physical & Mechanical Properties

Diameter (mm):

12.00 +0.0/-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):
10.8

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:
VIS-NIR (400-1000nm)

Wavelength Range (nm):
400 - 1000

Back Focal Length BFL (mm):
-18.65

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):
-18.94

Surface Quality:
40-20

Damage Threshold, By Design:
5 J/cm^2 @ 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

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

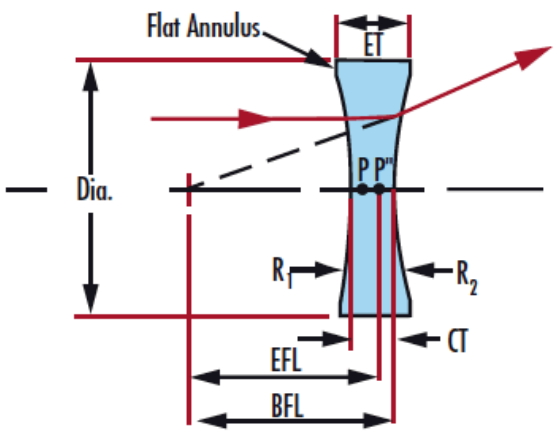
Learn more about our custom manufacturing capabilities or submit an inquiry here.

Product Details

- AR Coated to Provide <1.25% Reflectance per Surface for 400 - 1000nm
- <0.25% Reflectance @ 880nm
- Designed for 0° Angle of Incidence
- Various Coating Options: **Uncoated**, **VIS-EXT**, **MgF_2**, **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**, **MgF_2**, **VIS 0°**, **NIR I**, or with **NIR II** AR coating options.

Technical Information



Coating Curves

Compatible Mounts

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