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TECHSPEC® 12mm Dia. x -18mm FL, VIS 0° Coated, Double-Concave Lens

Stock **#48-940** **4 In Stock**

Other Coating Options

- 1 + ₹3,348

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Volume Pricing	
Qty 1-9	**₹3,348** each
Qty 10-25	**₹2,997** each
Qty 26-49	**₹2,686** each
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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):
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:
VIS 0° (425-675nm)

Wavelength Range (nm):
425 - 675

Back Focal Length BFL (mm):
-18.65

Coating Specification:
R_{avg} ≤0.4% @ 425 - 675nm

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, Reference:
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

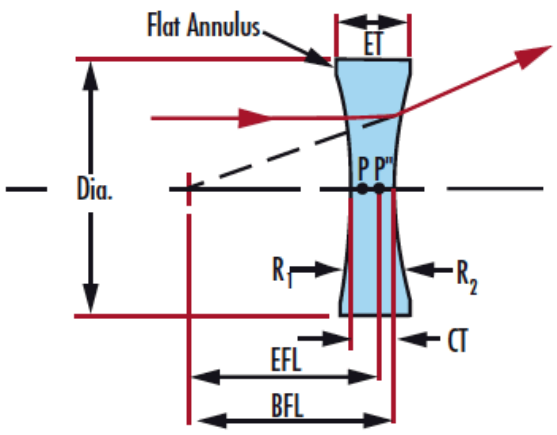
Imported By:
Edmund Optics India Private Limited

Product Details

- AR Coated to Provide <0.4% Reflectance per Surface for 425 - 675nm
- Designed for 0° Angle of Incidence
- Various Coating Options: Uncoated, VIS-EXT, MgF_2, VIS-NIR, NIR I, and NIR II

TECHSPEC® VIS 0° 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 0° Coated Double-Concave (DCV) Lenses are best used in 0° angle of incidence situations and provide optimized transmission in the 425nm – 675nm range. These lenses are also available Uncoated, VIS-EXT, MgF_2, VIS-NIR, NIR I, or with NIR II AR coating options.

Technical Information



Coating Curves

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.**

Compatible Mounts