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TECHSPEC[®] 6mm Dia. x -12mm FL, VIS-NIR Coated, Double-Concave Lens



Stock **#48-699** [CONTACT US](#)

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1

+

S\$65⁻¹⁰

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Volume Pricing	
Qty 1-9	S\$65.10 each
Qty 10-25	S\$58.45 each
Qty 26-49	S\$52.15 each
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General

Type:

Double-Concave Lens

Physical & Mechanical Properties

Diameter (mm):

6.00 +0.0/-0.025

Protective as needed	Bevel:
Center Thickness CT (mm):	1.00
Center Thickness Tolerance (mm):	±0.05
Centering (arcmin):	<1
Clear Aperture CA (mm):	5.4
Edge Thickness ET (mm):	1.59
Optical Properties	
Effective Focal Length EFL (mm):	-12.00
Substrate: ☐	N-BK7
f/#:	2.00
Numerical Aperture NA:	0.25
Coating:	VIS-NIR (400-1000nm)
Wavelength Range (nm):	400 - 1000
Back Focal Length BFL (mm):	-12.33
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):	-12.57
Surface Quality:	40-20
Damage Threshold, By Design: ☐	5 J/cm² @ 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

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

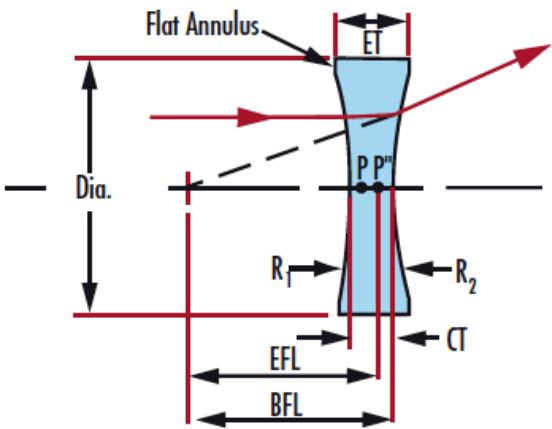
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

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](#), [MgF₂](#), [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

Technical Information



Coating Curves

Compatible Mounts