

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



Stock **#48-940** **1 In Stock**

Other Coating Options

-

1

+

£37⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-9	£37.60 each
Qty 10-25	£33.60 each
Qty 26-49	£30.20 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Double-Concave Lens

Physical & Mechanical Properties

12.00 +0.0/-0.025	Diameter (mm):
Protective as needed	Bevel:
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:
VIS 0° (425-675nm)	Coating:
425 - 675	Wavelength Range (nm):
-18.65	Back Focal Length BFL (mm):
R _{avg} ≤0.4% @ 425 - 675nm	Coating Specification:
587.6	Focal Length Specification Wavelength (nm):
±1	Focal Length Tolerance (%):
-18.94	Radius R ₁ =R ₂ (mm):
40-20	Surface Quality:
5 J/cm² @ 532nm, 10ns	Damage Threshold, Reference: ☐
1.5λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

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

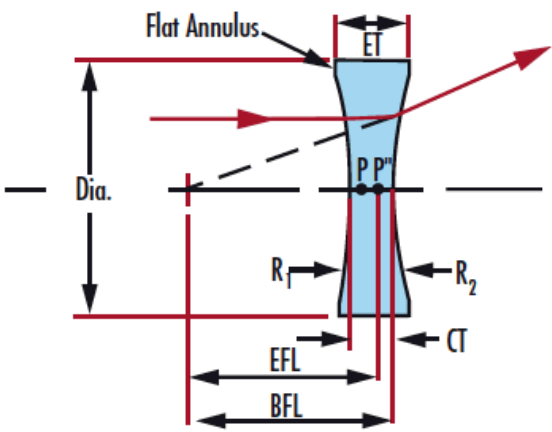
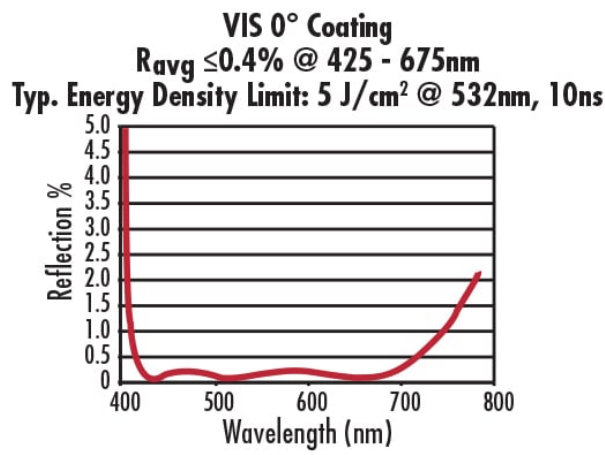
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

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](#), [MgF₂](#), [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

Technical Information



Coating Curves

Compatible Mounts