

[All Products](#) / [Optics](#) / [Optical Lens](#)
/ [VIS-NIR Coated Double-Concave](#)

[See all 26 Products in Family](#)

TECHSPEC®

6mm Dia. x -12mm

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region: European Union

Submit

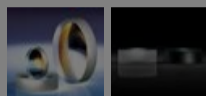


Stock #48-699-INK [CONTACT US](#)

1

€57⁰⁰

ADD TO CART



Volume Pricing

Qty 1-9	€57,00 each
Qty 10-25	€51,50 each
Qty 26-49	€45,50 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:stp
- PDF Drawing:pdf
- ISO 10110 Drawing
- IGES:igs
- Zemax:zar
- Zemax:zmx
- eDrawing:eprt
- Code V:seq
- EO Spec Sheet

General

Type: Double-Concave Lens

Physical & Mechanical Properties

Diameter (mm): 6.00

Bevel: Protective as needed

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:
 $R_{abs} \leq 0.25\%$ @ 880nm
 $R_{avg} \leq 1.25\%$ @ 400 - 870nm
 $R_{avg} \leq 1.25\%$ @ 890 - 1000nm

Focal Length Tolerance: ±1

Radius $R_1=-R_2$ (mm): -12.57

(%):

Surface Quality: 40-20

Regulatory Compliance

Certificate of Conformance: [View](#)

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region:

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

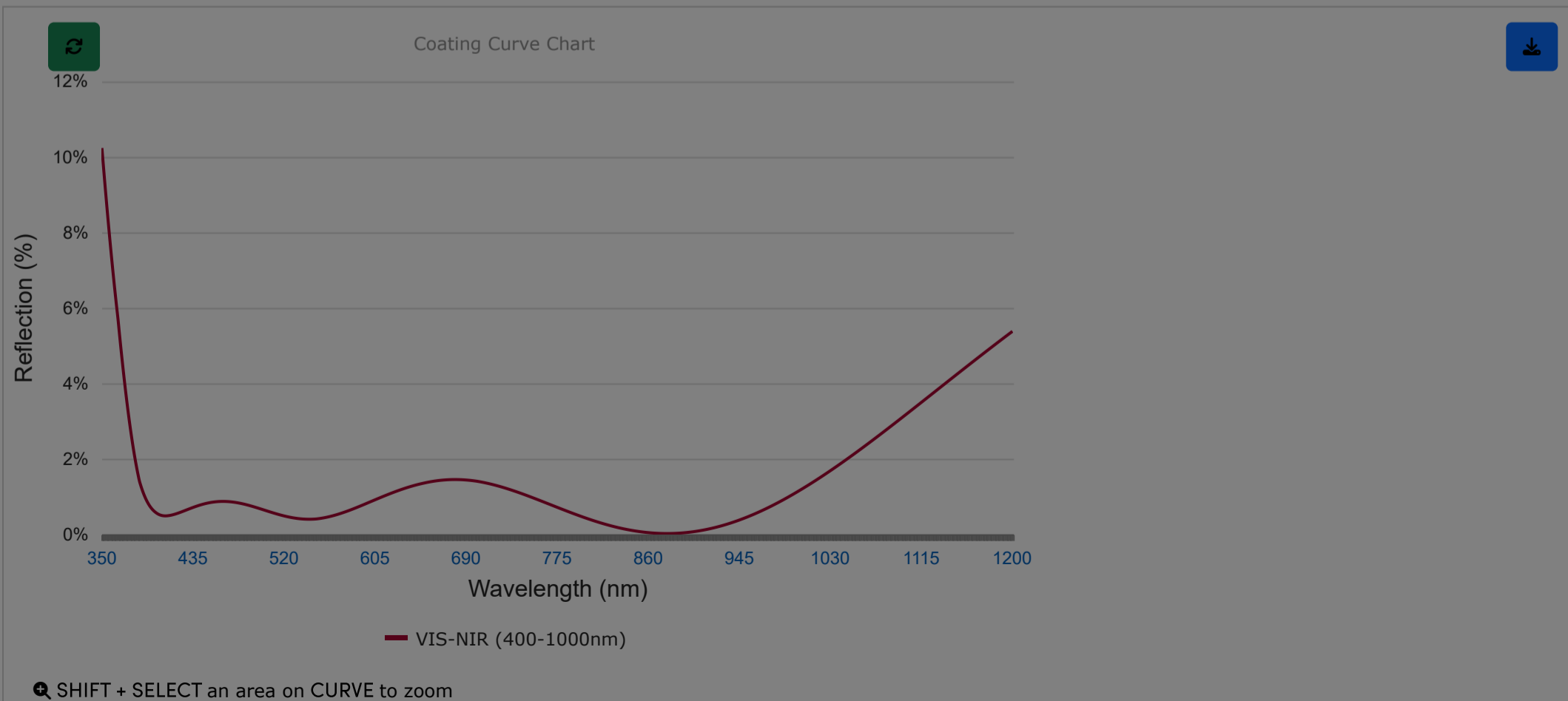
- AR Coated to Provide <1.25% Reflectance per Surface for 400 - 1000nm
- <0.25% Reflectance @ 880nm
- Designed for 0° Angle of Incidence
- Various Coating Options: **Uncoated**, **VIS-EXT**, **MgF₂**, **VIS 0°**, **NIR I**, and **NIR II**

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 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**, **MgF₂**, **VIS 0°**, **NIR I**, or with **NIR II** AR coating options.

Technical Information

Coating Curves

VIS-NIR (400-1000nm)

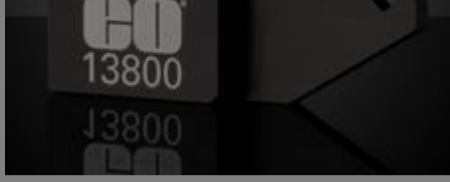


Please note that coating performance outside each product's specified design range is theoretical and may vary.

Related Products

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region:



#13-800 - Small Lens Clamp for 4-8mm Dia. Optics
€172,00

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	6.0mm Optic Dia., Optic Mount	Fixed		#64-552	€32,75 Request Quote	2 In Stock <input type="text" value="1"/>
	6mm Diameter, S-Mount Thin Optic Mount	Fixed		#63-941	€40,75 Request Quote	20+ In Stock <input type="text" value="1"/>
	6mm Inner Single Optic Mount	Fixed		#38-745	€41,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	6mm Diameter, C-Mount Thin Optic Mount	Fixed		#54-613	€59,50 Request Quote	9 In Stock <input type="text" value="1"/>

Check out our full selection of mounts [here](#).

Resources

Media Type

- Application Note
- Glossary
- Technical Tool
- Video
- FAQ
- Trending in Optics

APPLICATION NOTE

Anti-Reflection (AR) Coatings

APPLICATION NOTE

An Introduction to Optical Coatings

APPLICATION NOTE

Understanding Optical Specifications

APPLICATION NOTE

Lens Geometry Performance Comparison

GLOSSARY

NIR (Near Infrared)

GLOSSARY

VIS/NIR Coating

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region: