

TECHSPEC®

6mm Dia. x -12mm FL, VIS 0°, Inked, Double-Concave Lens



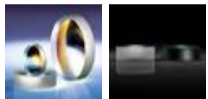
Stock #48-693-INK [CONTACT US](#) [Other Coating Options](#)

- 1 +

MRP ₹5,788

Price inclusive of all taxes

ADD TO CART



Volume Pricing	
Qty 1-9	₹5,788 each
Qty 10-25	₹5,204 each
Qty 26-49	₹4,620 each
Need More?	Request Quote

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 ±0.025	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 0° (425-675nm)	Wavelength Range (nm): 425 - 675
Back Focal Length BFL (mm): -12.33	Coating Specification: R _{avg} ≤0.4% @ 425 - 675nm
Focal Length Specification Wavelength (nm): 587.6	Focal Length Tolerance (%): ±1

Radius R₁=-R₂ (mm):	-12.57	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

Certificate of Conformance:	View		
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

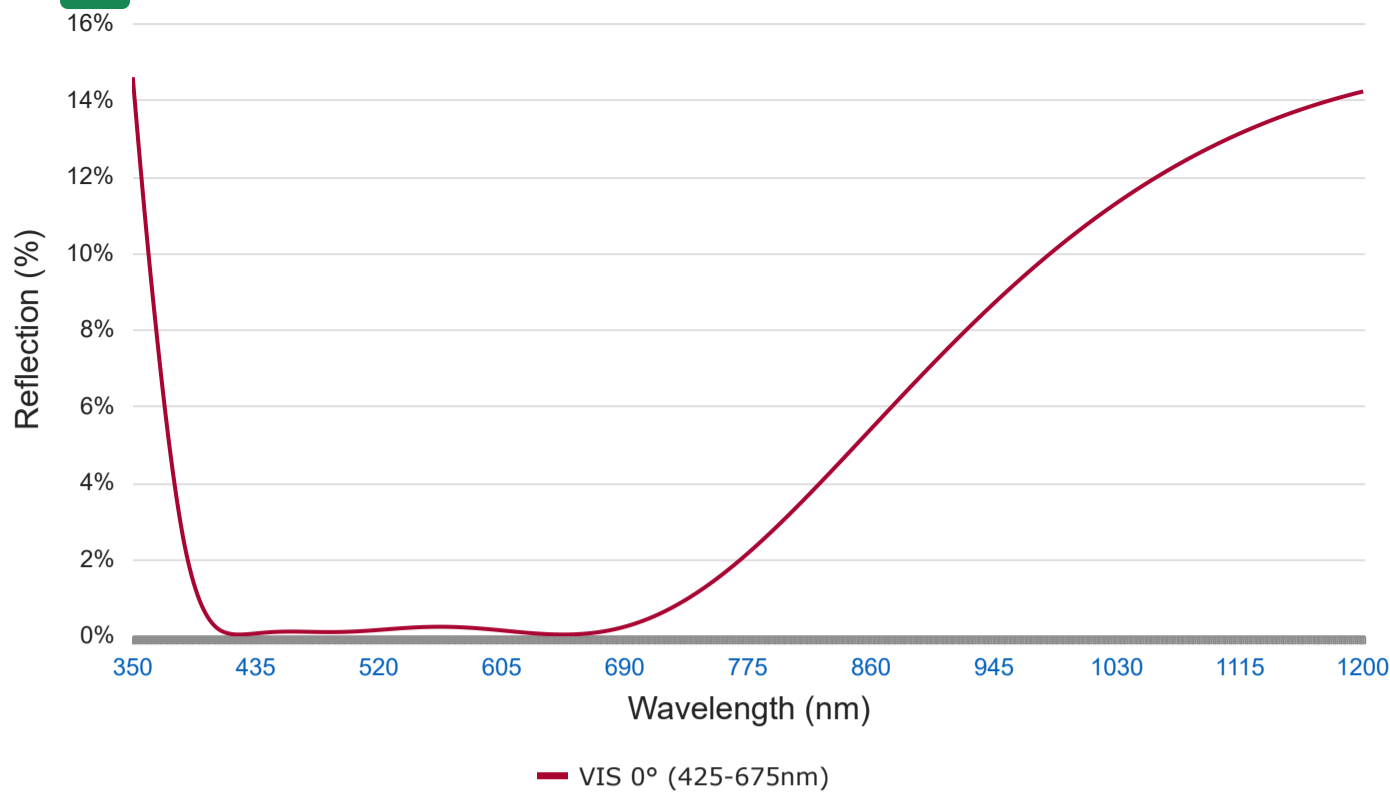
- AR Coated to Provide <0.4% Reflectance per Surface for 425 - 675nm
- Designed for 0° Angle of Incidence
- Various Coating Options: [Uncoated](#), [VIS-EXT](#), [MgF₂](#), [VIS-NIR](#), [NIR I](#), and [NIR II](#)

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. 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](#), [MgF₂](#), [VIS-NIR](#), [NIR I](#), or with [NIR II](#) AR coating options.

Technical Information

Coating Curves

VIS 0° (425-675nm)



SHIFT + SELECT an area on CURVE to zoom

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

Related Products



#13-800 - Small Lens Clamp for 4-8mm Dia. Optics
₹17,353

Qty

Frequently Purchased Together



#45-870-INK - 9mm Dia. x 36mm FL, VIS-NIR, Inked, Double-Convex Lens
₹6,372

Qty



#47-361 - 12mm Dia. x 30mm FL, VIS 0° Coated, Double-Convex Lens
₹4,893

Qty



#47-362 - 12mm Dia. x 36mm FL, VIS 0° Coated, Double-Convex Lens
₹4,893









Qty



#48-938-INK - 6mm Dia. x -9mm FL, VIS 0°, Inked, Double-Concave Lens
₹5,788

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	6.0mm Optic Dia., Optic Mount	Fixed		#64-552	₹3,305 Request Quote	2 In Stock <input type="text" value="1"/> 
MORE+ 	6mm Diameter, S-Mount Thin Optic Mount	Fixed		#63-941	₹4,112 Request Quote	16 In Stock <input type="text" value="1"/> 
MORE+ 	6mm Inner Single Optic Mount	Fixed		#38-745	₹4,137 Request Quote	1 In Stock <input type="text" value="1"/> 
MORE+ 	6mm Diameter, C-Mount Thin Optic Mount	Fixed		#54-613	₹6,003 Request Quote	9 In Stock <input type="text" value="1"/> 

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

Resources

Media Type

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

APPLICATION NOTE

Anti-Reflection (AR) Coatings

APPLICATION NOTE

An Introduction to Optical Coatings

APPLICATION NOTE

Understanding Optical Specifications

APPLICATION NOTE

Lens Geometry Performance Comparison

TECHNICAL TOOL

SAG Calculator

TRENDING IN OPTICS

Future of Spherical Lenses

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