

TECHSPEC®

25.0mm Dia. x 30.0mm FL, VIS-NIR, Inked, Plano-Convex Lens



Stock #45-505-INK [CONTACT US](#) [Other Coating Options](#)

1 MRP ₹7,115

Price inclusive of all taxes

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Volume Pricing	
Qty 1-9	₹7,115 each
Qty 10-24	₹6,425 each
Qty 25-49	₹5,682 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: Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm): 25.00 ±0.025	Centering (arcmin): <1
Center Thickness CT (mm): 8.06 ±0.10	Edge Thickness ET (mm): 1.73
Clear Aperture CA (mm): 24	Bevel: Protective as needed

Optical Properties

Effective Focal Length EFL (mm): 30.00 @ 587.6nm	Back Focal Length BFL (mm): 24.69
Coating: VIS-NIR (400-1000nm)	Coating Specification: R _{abs} ≤0.25% @ 880nm R _{avg} ≤1.25% @ 400 - 870nm R _{avg} ≤1.25% @ 890 - 1000nm
Substrate: N-BK7	Surface Quality: 40-20
Power (P-V) @ 632.8nm: 1.5λ	Irregularity (P-V) @ 632.8nm: λ/4
Focal Length Tolerance (%): ±1	Radius R₁ (mm): 15.50
f/#: 1.2	Numerical Aperture NA: 0.42

Wavelength Range (nm): 400 - 1000

Damage Threshold, By Design: 5 J/cm² @ 532nm, 10ns

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 <1.25% Reflectance per Surface for 400 - 1000nm
- <0.25% Reflectance @ 880nm
- Designed for 0° Angle of Incidence
- Various PCX Coating Options: [Uncoated](#), [MgF₂](#), [VIS 0°](#), [NIR I](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#)

TECHSPEC® VIS-NIR Coated Plano-Convex (PCX) Lenses have a positive focal length, making them ideal for collecting and focusing light in imaging applications. They are also useful in a variety of applications involving emitters, detectors, lasers, and fiber optics. Plano-Convex lenses are ideal for a multitude of optics and photonics applications, including biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms. TECHSPEC® VIS-NIR Coated Plano-Convex (PCX) Lenses are available in a wide variety of diameters and focal lengths. Identical designs of these PCX lenses are also offered [uncoated](#) or with broadband anti-reflective (BBAR) coatings, which include [MgF₂](#), [VIS 0°](#), [NIR I](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#).

These coated lenses are optimized for a wide range of optics and photonics applications, including biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms.

Technical Information

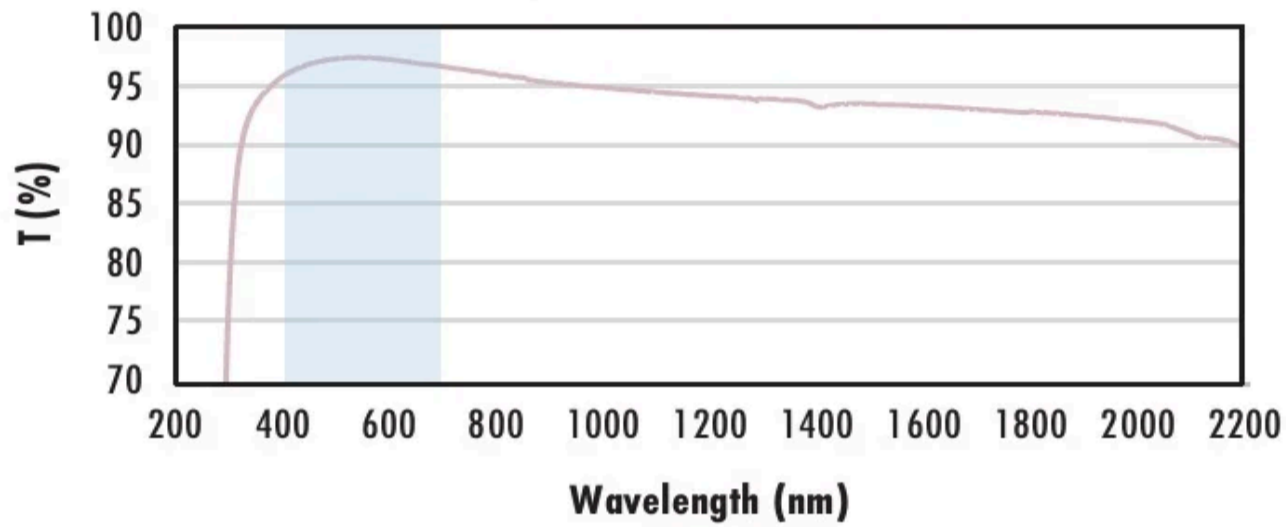
Uncoated N-BK7 Typical Transmission



Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.

[Click Here to Download Data](#)

N-BK7 with MgF₂ Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with MgF₂ (400-700nm) coating at 0° AOI.

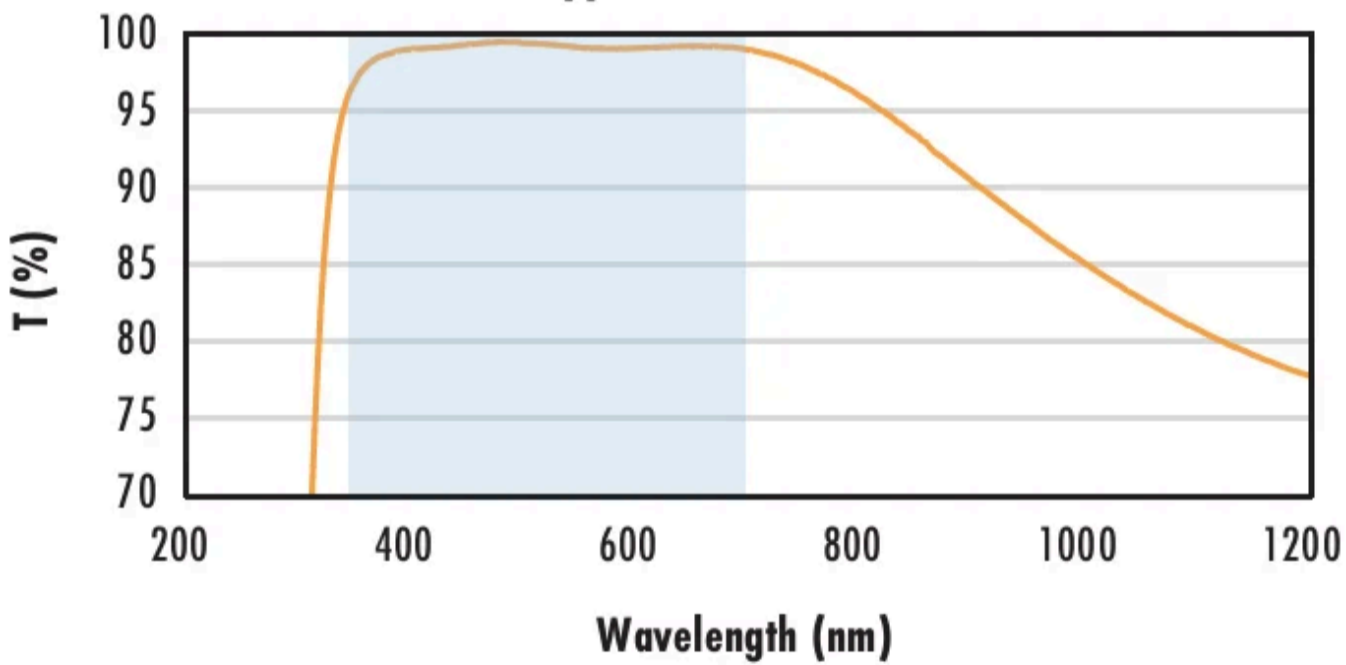
The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 1.75\% \text{ @ } 400 - 700\text{nm (N-BK7)}$$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

N-BK7 with VIS-EXT Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.

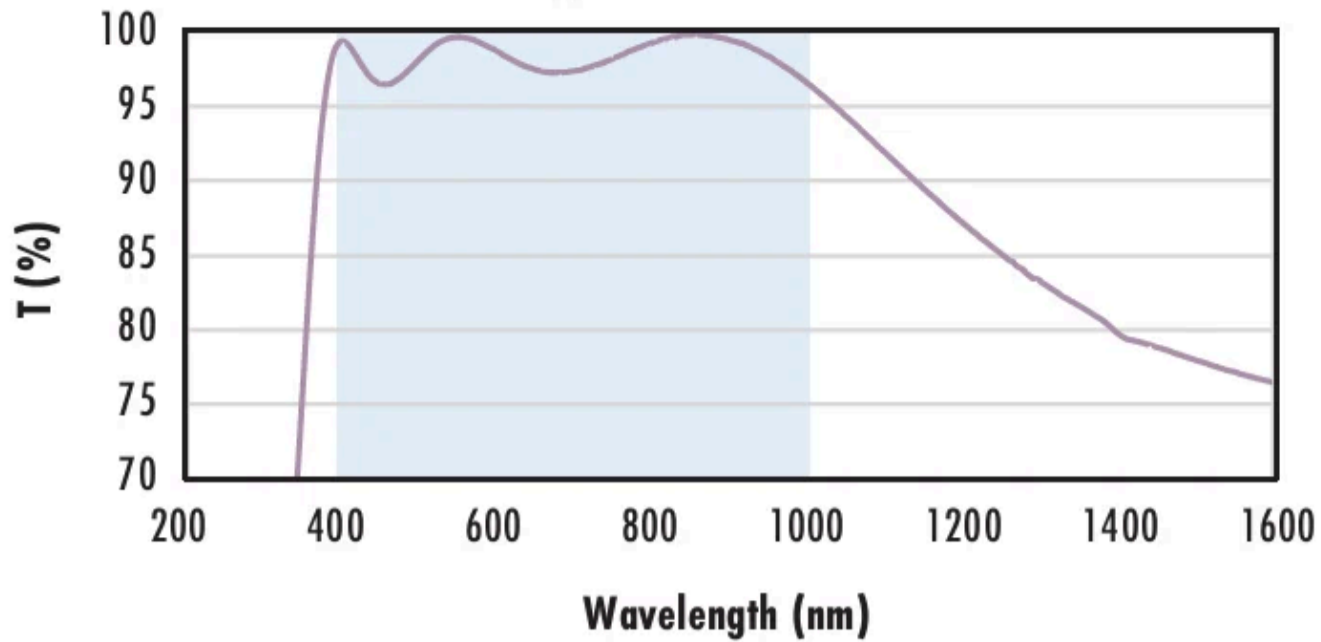
The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.5\% \text{ @ } 350 - 700\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

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N-BK7 with VIS-NIR Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.

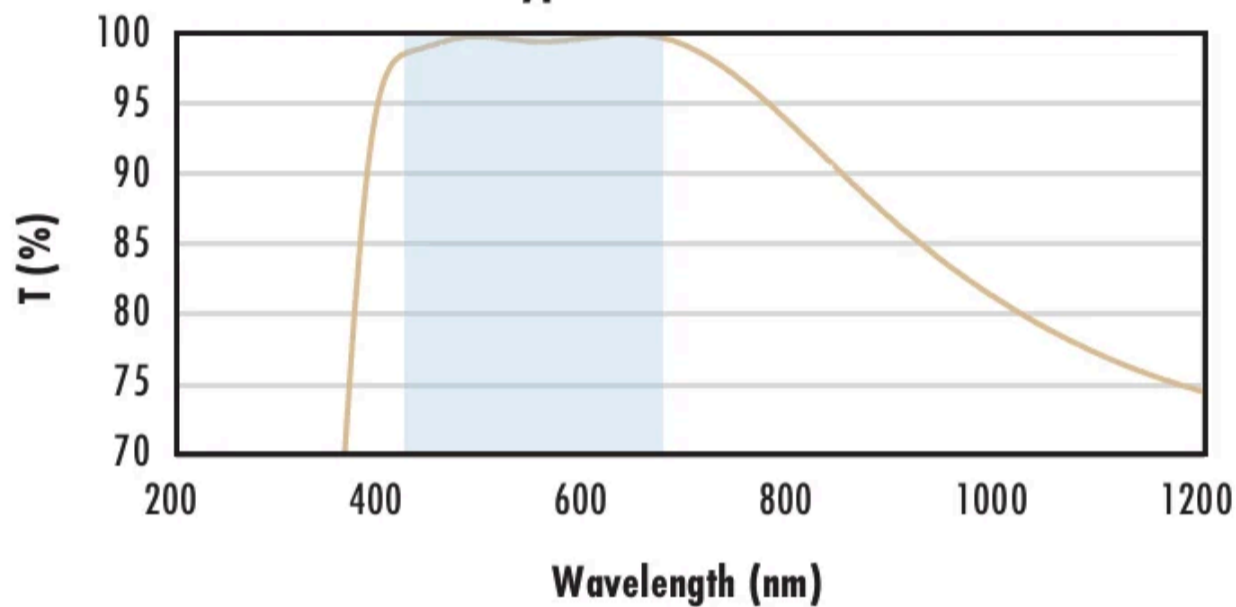
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

N-BK7 with VIS 0° Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with 0° (425-675nm) coating at 0° AOI.

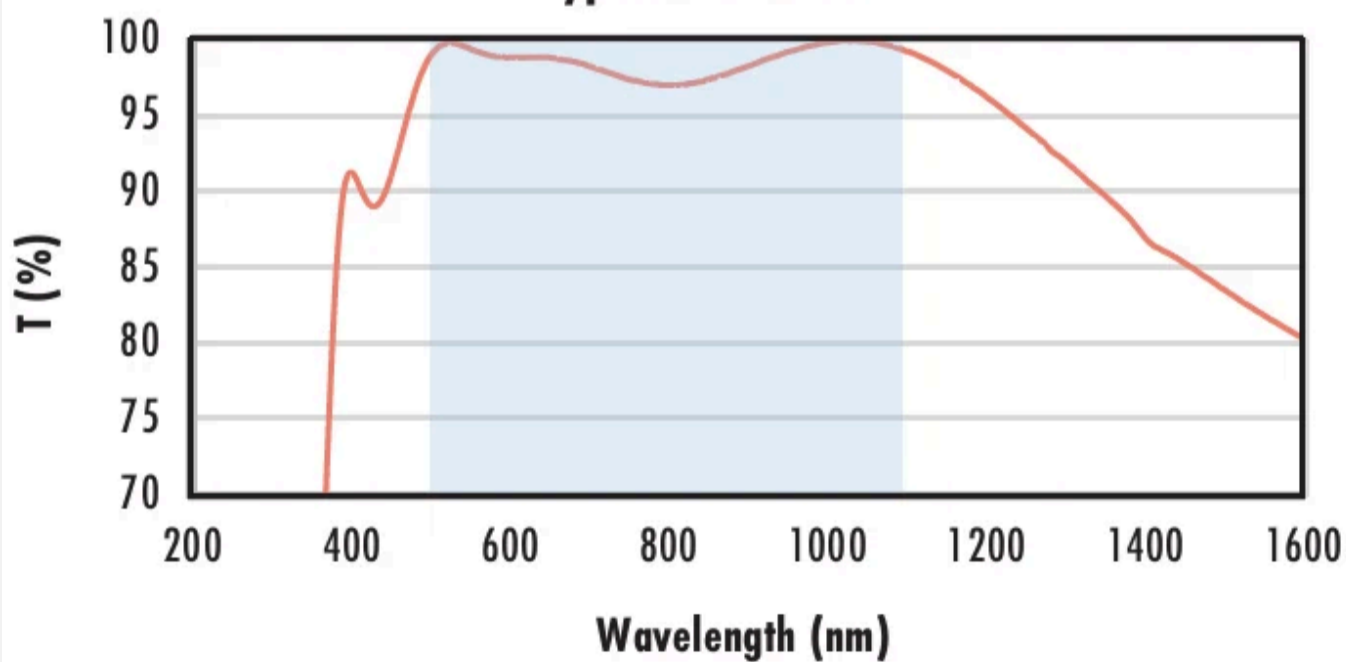
The blue shaded region indicates the coating design wavelength range, with the following specification:

- $R_{avg} \leq 0.4\% @ 425 - 675nm$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

N-BK7 with YAG-BBAR Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

- $R_{abs} \leq 0.25\% @ 532nm$
- $R_{abs} \leq 0.25\% @ 1064nm$
- $R_{avg} \leq 1.0\% @ 500 - 1100nm$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

N-BK7 with NIR I Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with I (600 - 1050nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.5\% \text{ @ } 600 - 1050\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

N-BK7 with NIR II Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with II (750 - 1550nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{abs} \leq 1.5\% \text{ @ } 750 - 800\text{nm}$$

$$R_{abs} \leq 1.0\% \text{ @ } 800 - 1550\text{nm}$$

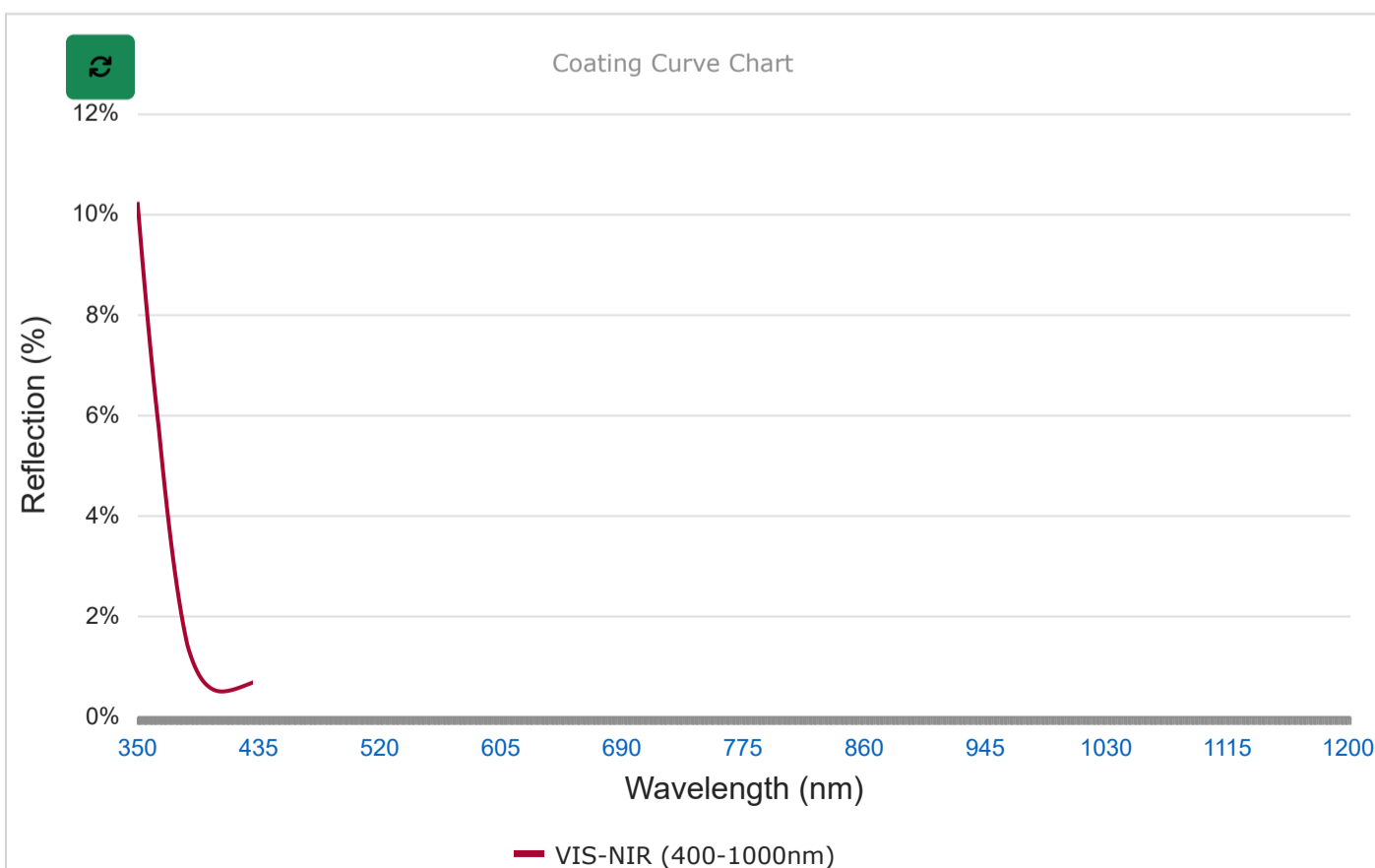
$$R_{avg} \leq 0.7\% \text{ @ } 750 - 1550\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

Coating Curves

VIS-NIR (400-1000nm)



SHIFT + SELECT an area on CURVE to zoom

Related Products



Prematex® Cleaning/Wiping Cloths



VIS-NIR Coated Achromatic Lenses



VIS-NIR Coated Double-Convex (DCX) Lenses



Uncoated Plano-Convex (PCX) Lenses

Frequently Purchased Together



#45-508-INK - 25.0mm Dia. x 50.0mm FL, VIS-NIR, Inked, Plano-Convex Lens
₹6,903



#45-887 - 25mm Dia. x 25mm FL, VIS-NIR Coated, Double-Convex Lens
₹5,801















#45-922-INK - 25mm Diameter x -25 FL, VIS-NIR, Inked, Plano-Concave Lens
₹7,115



#45-923-INK - 25mm Diameter x -50 FL, VIS-NIR, Inked, Plano-Concave Lens
₹7,115

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	25.0/25.4mm Optic Dia., SM1 Thin Mount, M4	Fixed		#13-787	₹2,119 Request Quote	2 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., SM1 Thin Mount, 8-32	Fixed		#13-788	₹2,119 Request Quote	CONTACT US <input type="text" value="1"/>
	25.0mm Optic Dia., Optic Mount	Fixed		#64-560	₹3,305 Request Quote	CONTACT US <input type="text" value="1"/>
	25mm Thin Inner Single Optic Mount	Fixed		#38-755	₹4,137 Request Quote	5 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., L-Slot Direct Mount	Fixed		#36-410	₹6,861 Request Quote	9 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., Side Flange Direct Mount	Fixed		#36-414	₹7,164 Request Quote	CONTACT US <input type="text" value="1"/>
	25mm Thin Inner Pair Optic Mounts	Fixed		#11-052	₹8,122 Request Quote	3 In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	25mm Thick Inner Pair Optic Mounts	Fixed		#11-054	₹8,122 Request Quote	11 In Stock <input type="text" value="1"/> 
MORE+ 	25/25.4mm Diameter, C-Mount Thin Optic Mount	Fixed		#56-353	₹9,989 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	25.0/25.4mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-411	₹10,291 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+ 	25.0/25.4mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-956	₹27,846 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+ 	25.0/25.4mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-959	₹54,481 Request Quote	6 In Stock <input type="text" value="1"/> 
MORE+ 	25.0/25.4mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-776	₹76,173 Request Quote	2 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

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