

**TECHSPEC®**

# 20.0mm Dia. x 30.0mm FL, NIR II Coated, Plano-Convex Lens



Stock #67-533 **3 In Stock** [Other Coating Options](#)

- 1 +

MRP ₹4,969

Price inclusive of all taxes

**ADD TO CART**



Volume Pricing	
Qty 1-9	₹4,969 each
Qty 10-24	₹4,465 each
Qty 25-49	₹3,985 each
Need More?	<a href="#">Request Quote</a>

Product Downloads	
STEP:stp	Curve:pdf
PDF Drawing:pdf	
ISO 10110 Drawing	
IGES:igs	Curve (xlsx):xlsx
Zemax:zar	Zemax:zmx
eDrawing:eprt	Code V:seq
EO Spec Sheet	<a href="#">Download All</a>

## General

**Type:** Plano-Convex Lens

## Physical & Mechanical Properties

<b>Diameter (mm):</b> 20.00 +0.0/-0.025	<b>Centering (arcmin):</b> <1
<b>Center Thickness CT (mm):</b> 4.50 ±0.10	<b>Edge Thickness ET (mm):</b> 1.84
<b>Clear Aperture CA (mm):</b> 19	<b>Bevel:</b> Protective as needed

## Optical Properties

<b>Effective Focal Length EFL (mm):</b> 30.00 @ 587.6nm	<b>Back Focal Length BFL (mm):</b> 27.30
<b>Coating:</b> NIR II (750-1550nm)	<b>Coating Specification:</b> R <sub>abs</sub> ≤1.5% @ 750 - 800nm R <sub>abs</sub> ≤1.0% @ 800 - 1550nm R <sub>avg</sub> ≤0.7% @ 750 - 1550nm
<b>Substrate:</b> <a href="#">N-BAF10</a>	<b>Surface Quality:</b> 40-20
<b>Power (P-V) @ 632.8nm:</b> 1.5λ	<b>Irregularity (P-V) @ 632.8nm:</b> λ/4
<b>Focal Length Tolerance (%):</b> ±1	<b>Radius R<sub>1</sub> (mm):</b> 20.10
<b>f/#:</b> 1.5	<b>Numerical Aperture NA:</b> 0.33

**Wavelength Range (nm):** 750 - 1550

**Damage Threshold, By Design:** 8 J/cm<sup>2</sup> @ 1064nm, 10ns [i](#)

## Regulatory Compliance

**RoHS 2015:** [Compliant](#)

**Certificate of Conformance:** [View](#)

**Reach 235:** [Compliant](#)

**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 <0.7% Reflectance per Surface for 750 - 1550nm
- Designed for 0° Angle of Incidence
- Various PCX Coating Options: [Uncoated](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [VIS-EXT](#), and [YAG-BBAR](#)

TECHSPEC® NIR II Coated Plano-Convex 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. TECHSPEC® NIR II Coated Plano-Convex 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 [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [VIS-EXT](#), and [YAG-BBAR](#).

## Technical Information

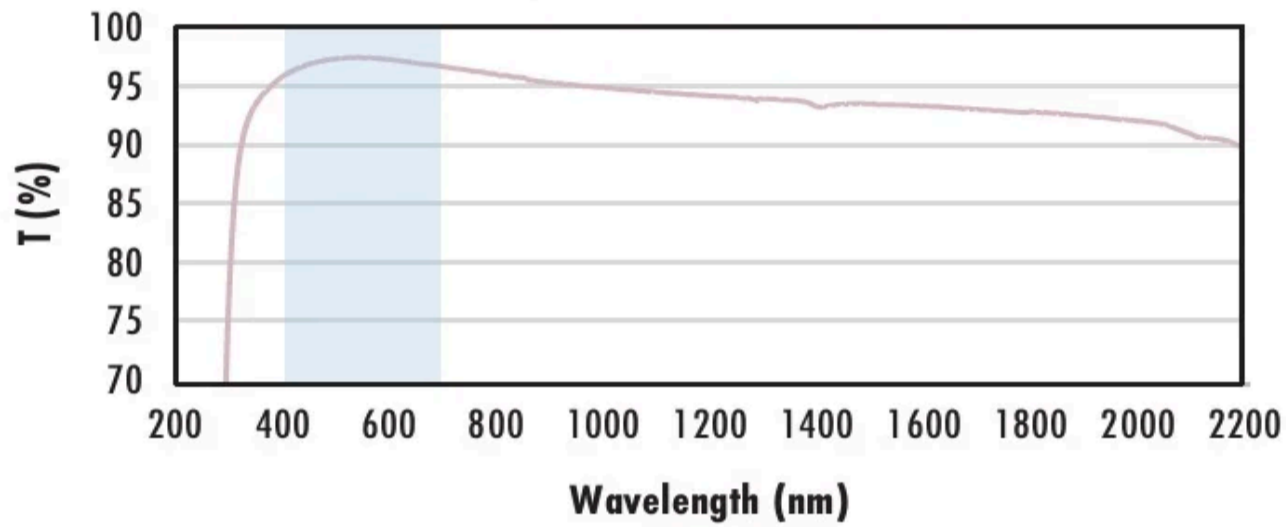
### Uncoated N-BK7 Typical Transmission



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

[Click Here to Download Data](#)

### N-BK7 with MgF<sub>2</sub> Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.

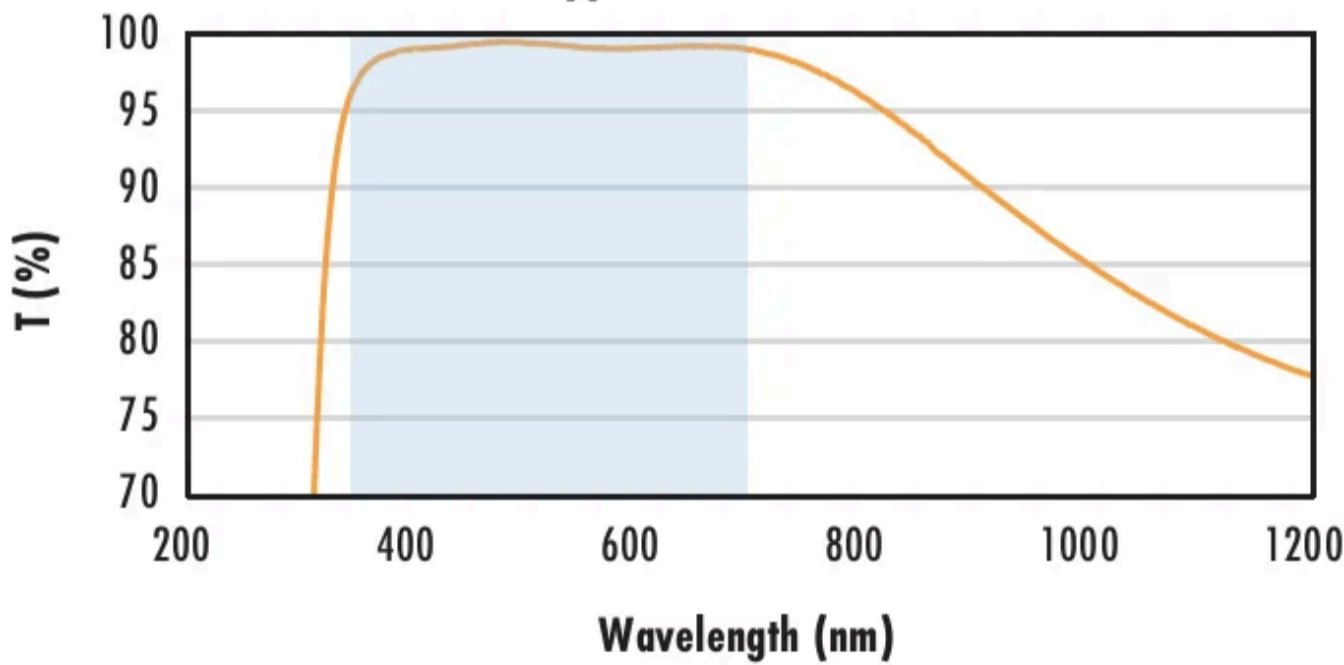
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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.

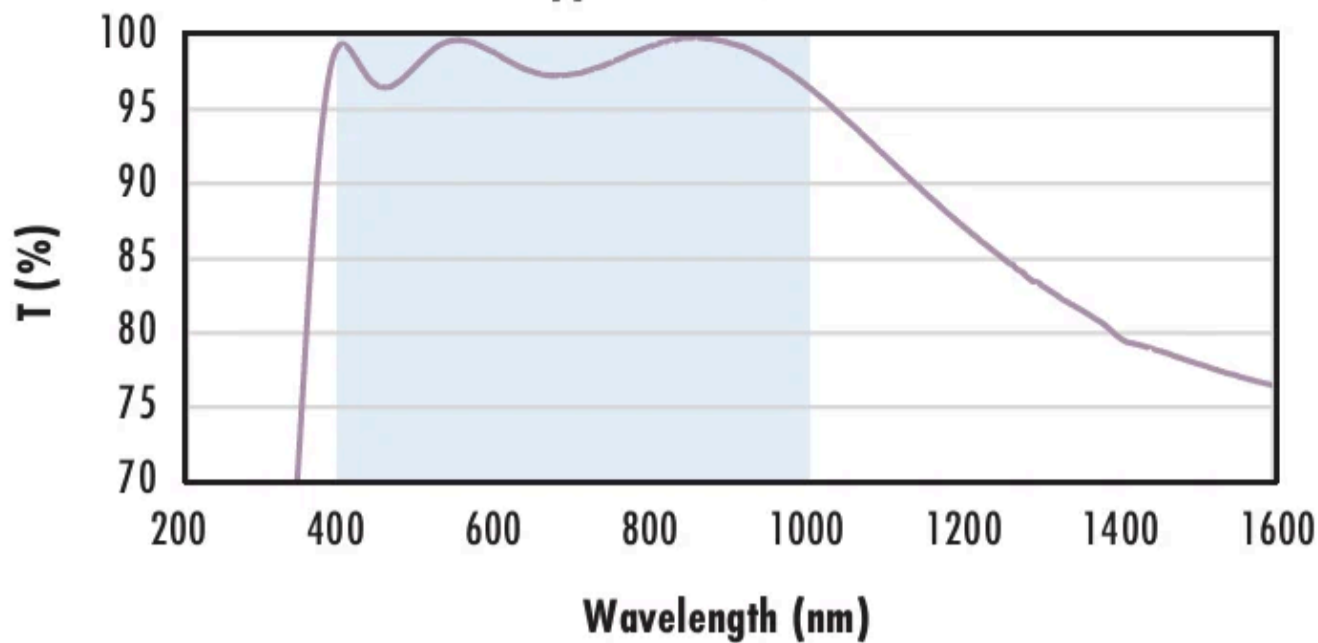
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

[Click Here to Download Data](#)

### 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.

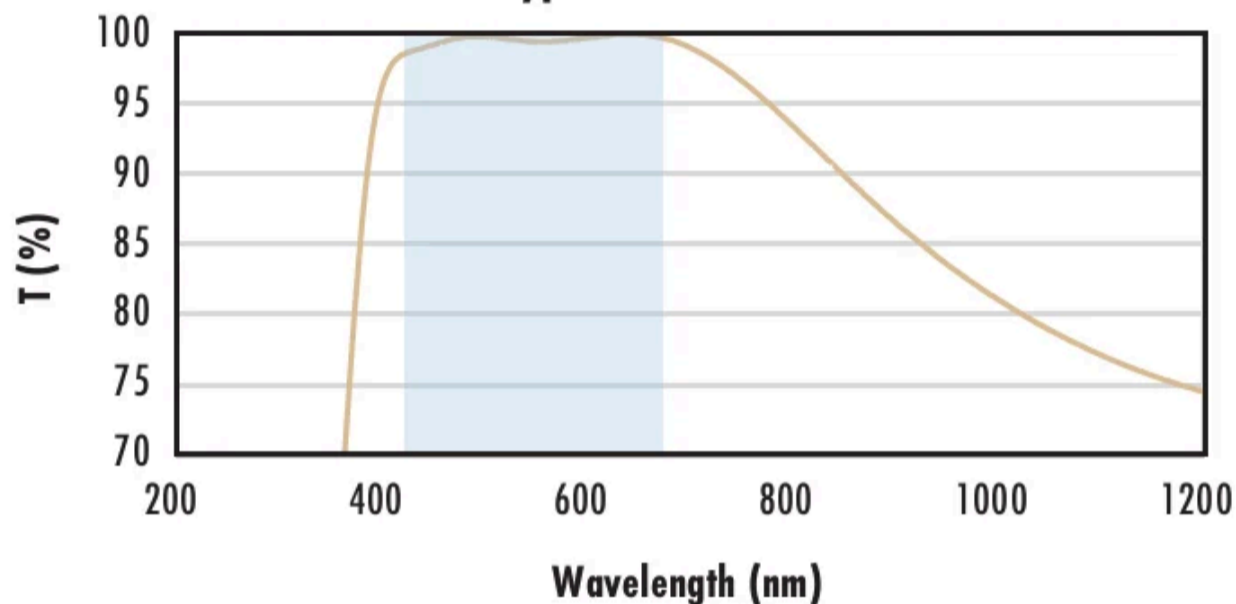
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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.

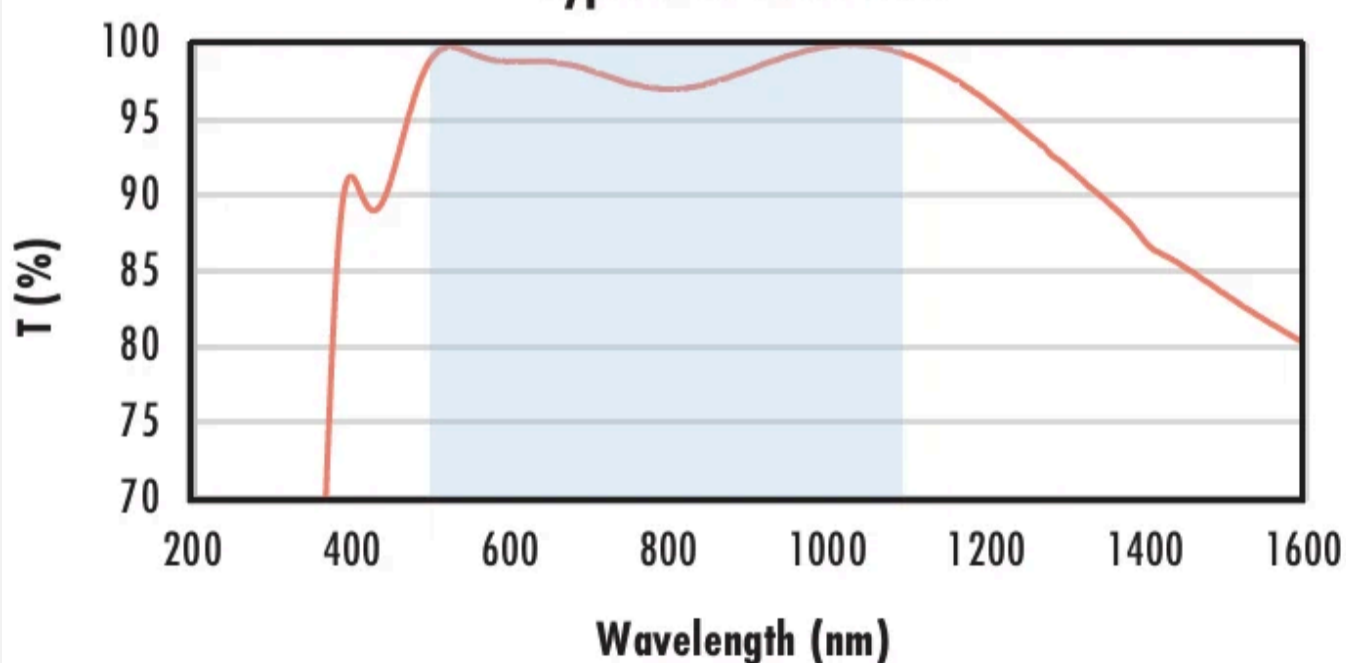
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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.

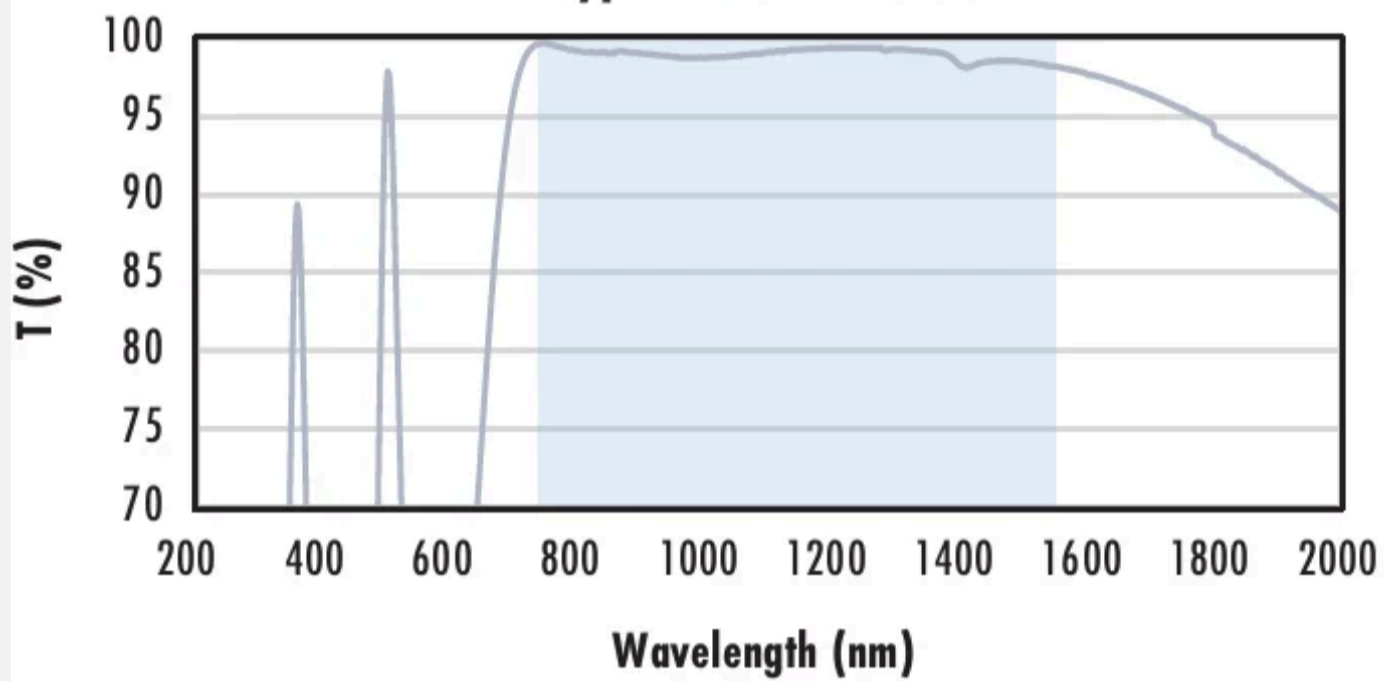
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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:

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

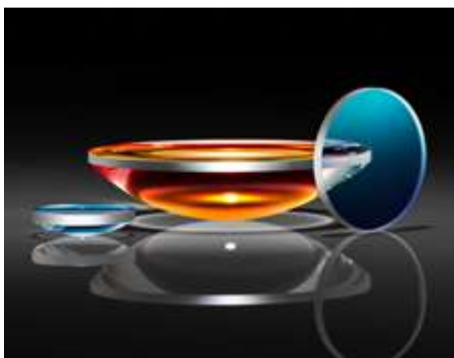
$$R_{abs} \leq 1.0\% \text{ @ } 800 - 1550\text{nm}$$

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

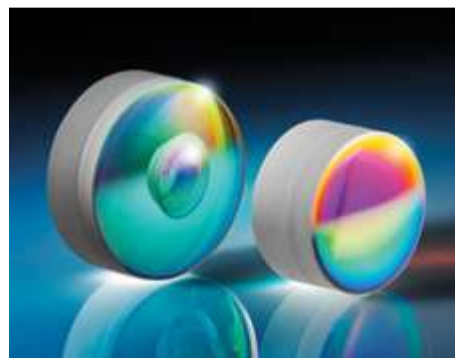
Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

## Related Products



UV Fused Silica Plano-Convex (PCX) Lenses - NIR II Coated



Near-IR (NIR) Achromatic Lenses



NIR II Coated Double-Convex (DCX) Lenses



Optical Cleaning

## Frequently Purchased Together



#45-216 - 25mm Dia. x 400mm FL, MgF<sub>2</sub> Coated, Achromatic Doublet Lens  
₹12,309

Qty



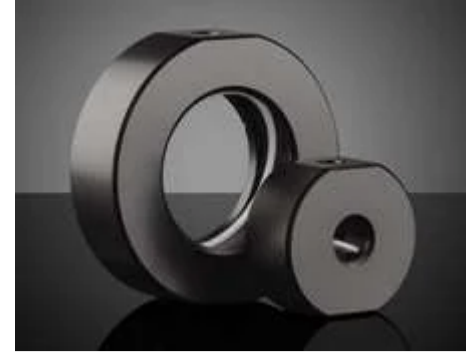
#47-346 - 25.0mm Dia. x 50.0mm FL, VIS 0° Coated, Plano-Convex Lens  
₹4,792

Qty



#63-625 - 40mm Dia. x 120mm FL, VIS 0° Coated, Double-Convex Lens  
₹7,164

Qty



#64-557 - 15.0mm Optic Dia., Optic Mount  
₹3,305

Qty

## Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	20.0mm Optic Dia., Optic Mount	Fixed		#64-559	₹3,305 <a href="#">Request Quote</a>	14 In Stock <input type="text" value="1"/>
	20mm Inner Single Optic Mount	Fixed		#38-754	₹4,137 <a href="#">Request Quote</a>	8 In Stock <input type="text" value="1"/>
	20mm Diameter, C-Mount Thin Optic Mount	Fixed		#54-618	₹6,003 <a href="#">Request Quote</a>	20+ 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

[View More](#)

