

TECHSPEC[®] 1.0mm Dia. x 0.6mm FL, NIR I Coated, Plano-Convex Lens



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₹6,228

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Volume Pricing	
Qty 1-9	₹6,228 each
Qty 10-24	₹5,605 each
Qty 25-49	₹4,982 each
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General

Type:
Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):
1.00 +0.0/-0.025

Centering (arcmin):	30-45, typical
Center Thickness CT (mm):	0.80 ±0.05
Edge Thickness ET (mm):	0.39
Clear Aperture CA (mm):	0.5
Bevel:	Protective as needed

Optical Properties	
Effective Focal Length EFL (mm):	0.60 @ 587.6nm
Back Focal Length BFL (mm):	0.17
Coating:	NIR I (600-1050nm)
Coating Specification:	R _{avg} ≤0.5% @ 600 - 1050nm
Substrate: □	N-LASF9
Surface Quality:	20-10
Power (P-V) @ 632.8nm:	10λ
Irregularity (P-V) @ 632.8nm:	2λ
Focal Length Tolerance (%):	±1
Radius R ₁ (mm):	0.51
f/#:	0.6
Numerical Aperture NA:	0.83
Wavelength Range (nm):	600 - 1050
Damage Threshold, By Design: □	7 J/cm ² @ 1064nm, 10ns

Regulatory Compliance	
RoHS 2015:	Compliant
Certificate of Conformance:	View
Reach 235:	Compliant
Country of Origin:	Japan
Imported By:	Edmund Optics India Private Limited

Product Details

- AR Coated to Provide <0.5% Reflectance per Surface for 600 - 1050nm
- Designed for 0° Angle of Incidence
- Various PCX Coating Options: [Uncoated](#), [MgF₂](#), [VIS 0°](#), [VIS-NIR](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#)

TECHSPEC® NIR I 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. TECHSPEC® NIR I 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°](#), [VIS-NIR](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#).

Technical Information



N-BK7

Uncoated N-BK7 Typical Transmission



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

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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:

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

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:

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

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:

$$\begin{aligned} R_{abs} &\leq 0.25\% @ 880\text{nm} \\ R_{avg} &\leq 1.25\% @ 400 - 870\text{nm} \\ R_{avg} &\leq 1.25\% @ 890 - 1000\text{nm} \end{aligned}$$

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

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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](#).
