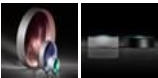


TECHSPEC[®] 6mm Diameter x -6 FL, VIS-NIR Coated, Plano-Concave Lens



TECHSPEC VIS-NIR Coated Plano-Concave (PCV) Lenses



Stock **#45-910 20+ In Stock**
[Other Coating Options](#)

-

1

+

₹3,348

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Volume Pricing	
Qty 1-9	₹3,348 each
Qty 10-25	₹2,997 each
Qty 26-49	₹2,686 each
Need More?	Request Quote

Product Downloads

General

Type:
Plano-Concave Lens

Physical & Mechanical Properties

Diameter (mm):

6.00 +0.0/-0.025	
Protective as needed	Bevel:
1.50	Center Thickness CT (mm):
±0.05	Center Thickness Tolerance (mm):
<3	Centering (arcmin):
5.4	Clear Aperture CA (mm):
2.22	Edge Thickness ET (mm):

Optical Properties	
-6.00	Effective Focal Length EFL (mm):
N-SF11	Substrate: ☐
1.00	f#:
0.50	Numerical Aperture NA:
VIS-NIR (400-1000nm)	Coating:
400 - 1000	Wavelength Range (nm):
-6.84	Back Focal Length BFL (mm):
R _{abs} ≤0.25% @ 880nm R _{avg} ≤1.25% @ 400 - 870nm R _{avg} ≤1.25% @ 890 - 1000nm	Coating Specification:
587.6	Focal Length Specification Wavelength (nm):
±1	Focal Length Tolerance (%):
-4.71	Radius R ₁ (mm):
40-20	Surface Quality:
5 J/cm² @ 532nm, 10ns	Damage Threshold, By Design: ☐
1.5λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:

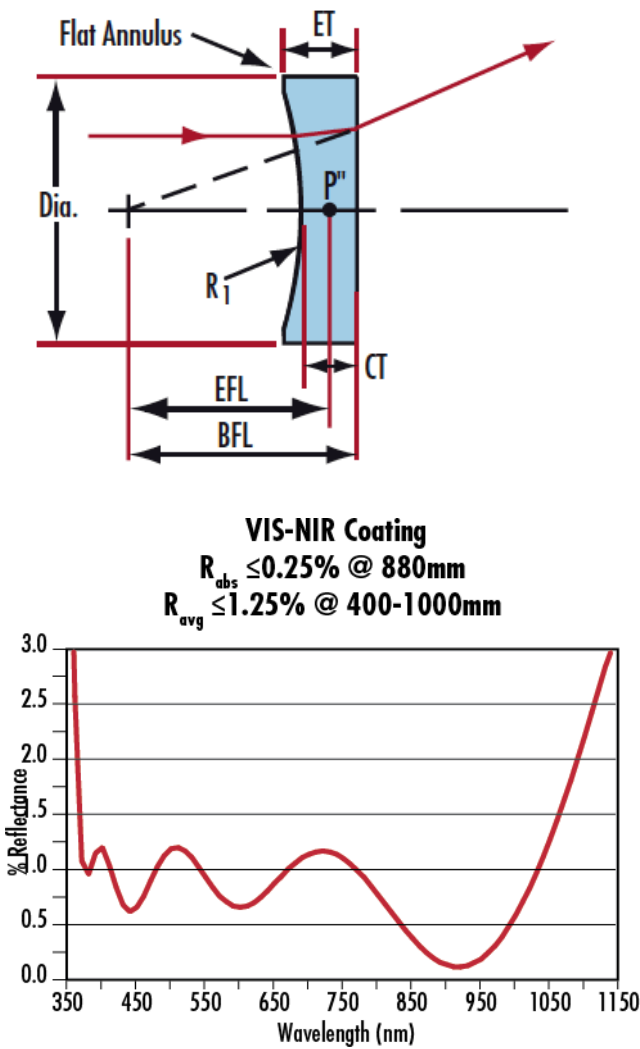
Regulatory Compliance	
Compliant	RoHS 2015:
Compliant	Reach 219:
View	Certificate of Conformance:
Japan	Country of Origin:
Edmund Optics India Private Limited	Imported By:

Product Details

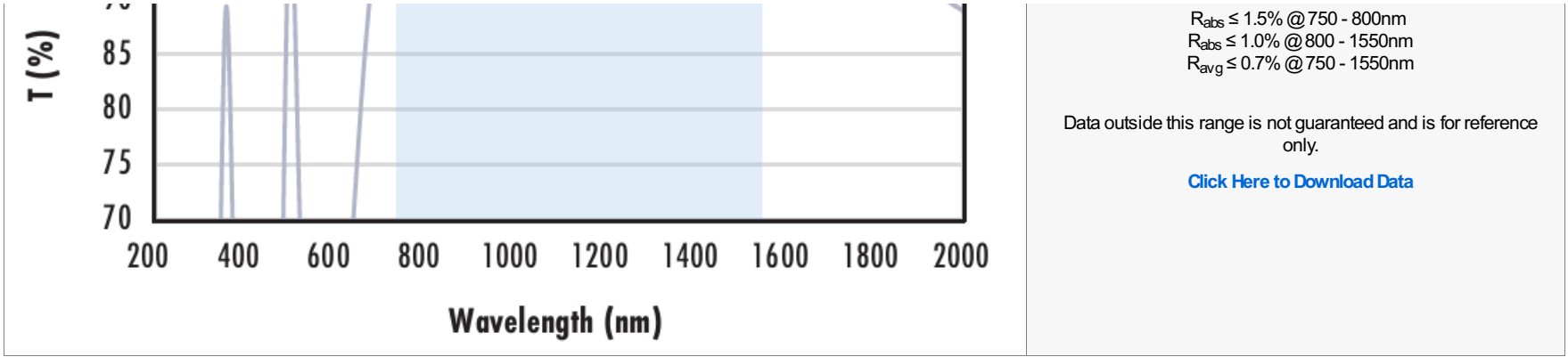
- AR Coated to Provide <1.25% Reflectance per Surface for 400 - 1000nm
- <0.25% Reflectance @ 880nm
- Designed for 0° Angle of Incidence
- Various Coating Options: [Uncoated](#), [VIS-EXT](#), [MgF₂](#), [VIS 0°](#), [YAG-BBAR](#), [NIR I](#), and [NIR II](#)

TECHSPEC® VIS-NIR Coated Plano-Concave (PCV) Lenses are designed to bend parallel input rays to diverge from one another on the output side of the lens causing this lens to have a negative focal length. These lenses can be used for balancing aberrations created by other lenses within a system due to their negative spherical aberration. Plano-Concave (PCV) lenses are commonly used in a variety of applications including image reduction, beam expansion and telescopes. TECHSPEC® VIS-NIR Coated Plano-Concave (PCV) Lenses are optimized for transmission (>99%) in the near-infrared. These lenses are also available [Uncoated](#), [VIS-EXT](#), [MgF₂](#), [VIS 0°](#), [YAG-BBAR](#), [NIR I](#), or with [NIR II](#) AR coating options.

Technical Information



N-BK7	
Uncoated N-BK7 Typical Transmission The graph shows transmission T (%) on the y-axis (70 to 100) versus wavelength (nm) on the x-axis (200 to 2200). The transmission curve starts at approximately 70% at 200 nm, rises sharply to about 92% by 400 nm, and then remains relatively flat, ending at approximately 88% at 2200 nm.	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 The graph shows transmission T (%) on the y-axis (70 to 100) versus wavelength (nm) on the x-axis (200 to 2200). The transmission curve starts at approximately 70% at 200 nm, rises to about 95% by 400 nm, and then gradually decreases to approximately 90% at 2200 nm. A blue shaded region highlights the design wavelength range from 400 nm to 700 nm, where the transmission is consistently above 95%.	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: $R_{\text{avg}} \leq 1.75\% @ 400 - 700\text{nm}$ (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 The graph shows transmission T (%) on the y-axis (70 to 100) versus wavelength (nm) on the x-axis (200 to 1200). The transmission curve starts at approximately 70% at 200 nm, rises to about 98% by 400 nm, and then gradually decreases to approximately 78% at 1200 nm. A blue shaded region highlights the design wavelength range from 350 nm to 700 nm, where the transmission is consistently above 98%.	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: $R_{\text{avg}} \leq 0.5\% @ 350 - 700\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data



Coating Curves

Custom

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](#).

Compatible Mounts