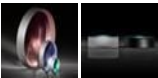


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TECHSPEC[®] 20mm Diameter x -30 FL, VIS-NIR Coated, Plano-Concave Lens



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



Stock **#45-919** **8 In Stock**

[Other Coating Options](#)

-

1

+

€53^{.00}

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Volume Pricing	
Qty 1-9	€53,50 each
Qty 10-25	€48,00 each
Qty 26-49	€42,75 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Plano-Concave Lens

Type:

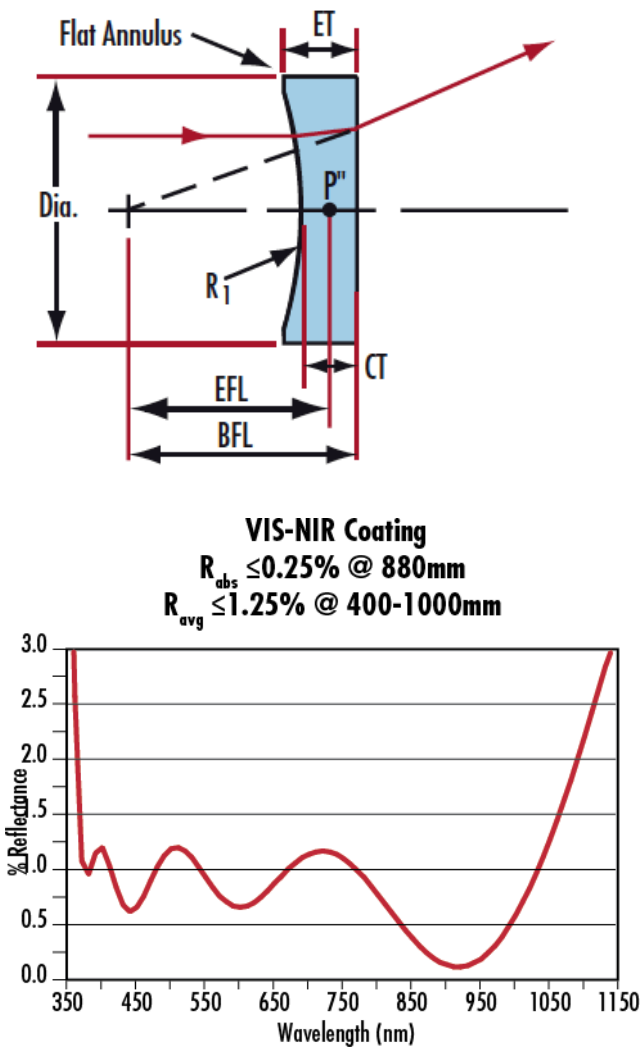
Physical & Mechanical Properties

20.00 +0.0/-0.025	Diameter (mm):
Protective as needed	Bevel:
3.50	Center Thickness CT (mm):
±0.10	Center Thickness Tolerance (mm):
<1	Centering (arcmin):
19.00	Clear Aperture CA (mm):
5.39	Edge Thickness ET (mm):
Optical Properties	
-30.00	Effective Focal Length EFL (mm):
N-SF11	Substrate: □
1.5	f/#:
0.33	Numerical Aperture NA:
VIS-NIR (400-1000nm)	Coating:
400 - 1000	Wavelength Range (nm):
-31.96	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 (%):
-23.54	Radius R ₁ (mm):
40-20	Surface Quality:
5 J/cm ² @ 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:
View	Certificate of Conformance:
Compliant	Reach 235:

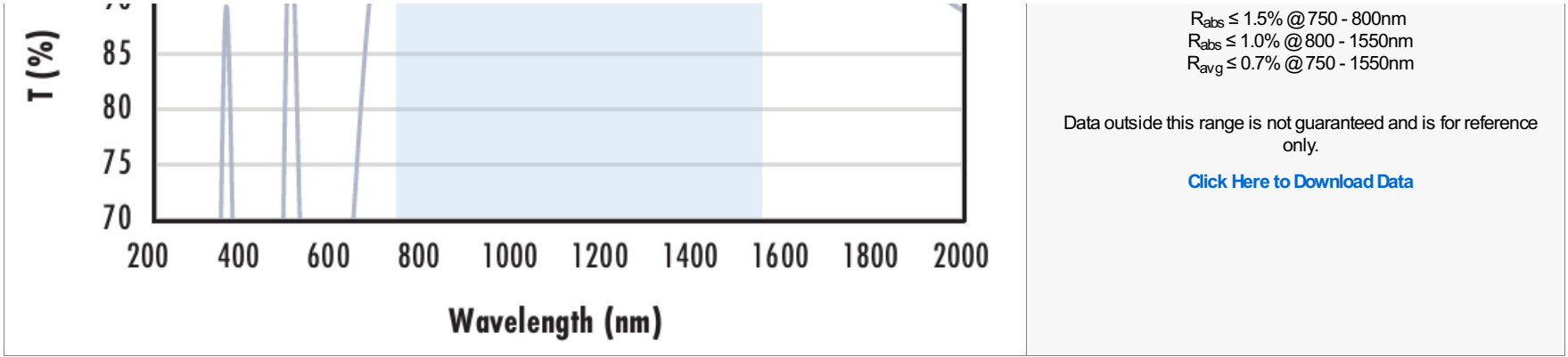
Product Details

- 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 ~70% at 200 nm, rises sharply to ~92% by 400 nm, and remains relatively flat with minor fluctuations between 92% and 93% until 2000 nm, then slightly decreases to ~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 curve rises from ~70% at 200 nm to ~95% at 400 nm, then to a peak of ~98% at 500 nm. A blue shaded region highlights the design wavelength range from 400 nm to 700 nm. After 700 nm, the transmission gradually decreases to ~90% at 2200 nm.	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 curve rises from ~70% at 200 nm to ~98% at 400 nm. A blue shaded region highlights the design wavelength range from 350 nm to 700 nm. The transmission remains high (above 95%) until ~800 nm, then decreases to ~78% at 1200 nm.	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