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TECHSPEC 9.0mm Dia. x -18 FL, YAG-BBAR, Plano-Concave Lens





Stock **#21-308 14 In Stock**





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Volume Pricing	
Qty 1-9	£38.52 each
Qty 10-25	£34.58 each
Qty 26-49	£30.86 each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

Plano-Concave Lens	
Physical & Mechanical Properties	
Diameter (mm): 9.00	:
Bevel: Protective as needed	
Center Thickness CT (mm): 2.25 ±0.05	<u> </u>
Centering (arcmin):	: :
Clear Aperture CA (mm):	:
8.1 Edge Thickness ET (mm):	:
2.89	
Optical Properties	
Effective Focal Length EFL (mm): -18.00	
N-SF11	
1.00	
Numerical Aperture NA:	
Coating: YAG-BBAR (500-1100nm)	
Wavelength Range (nm): 500 - 1100	•
Back Focal Length BFL (mm):	
Coating Specification:	:
R _{abs} <0.25% @ 532nm R _{abs} <0.25% @ 1064nm R _{avg} <1.0% @ 500 - 1100nm	
Focal Length Specification Wavelength (nm): 587.6	
Focal Length Tolerance (%):	:
-14.12 Radius R ₁ (mm):	:
Surface Quality: 40-20	
Damage Threshold, By Design: ☐ 5 J/cm ² @ 532nm, 10ns	
Power (P-V) @ 632.8nm : 1.5λ	:
Irregularity (P-V) @ 632.8nm:	
Regulatory Compliance	
RoHS 2015: Compliant	
Certificate of Conformance:	
Reach 235:	:

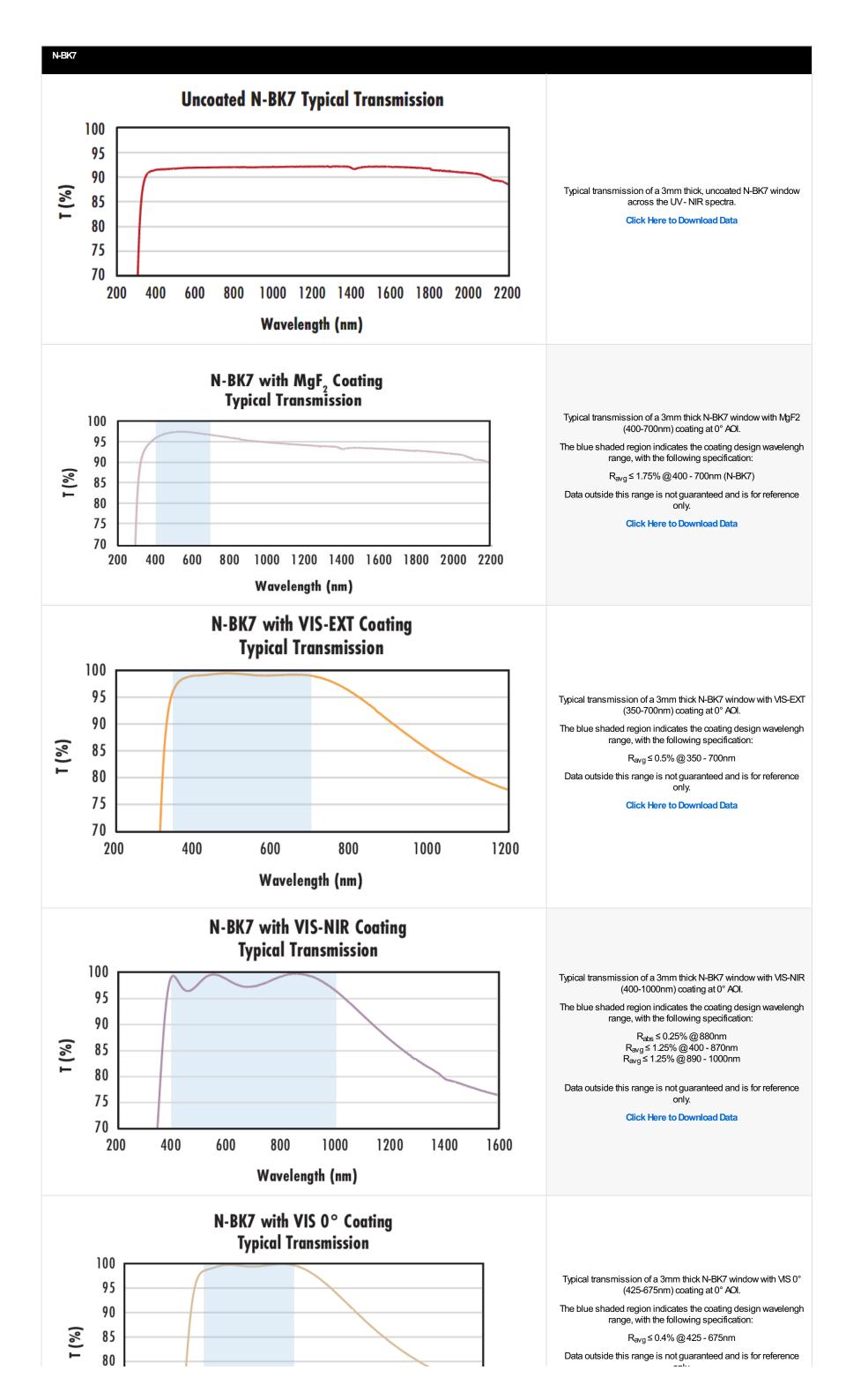
PRODUCT DETAILS

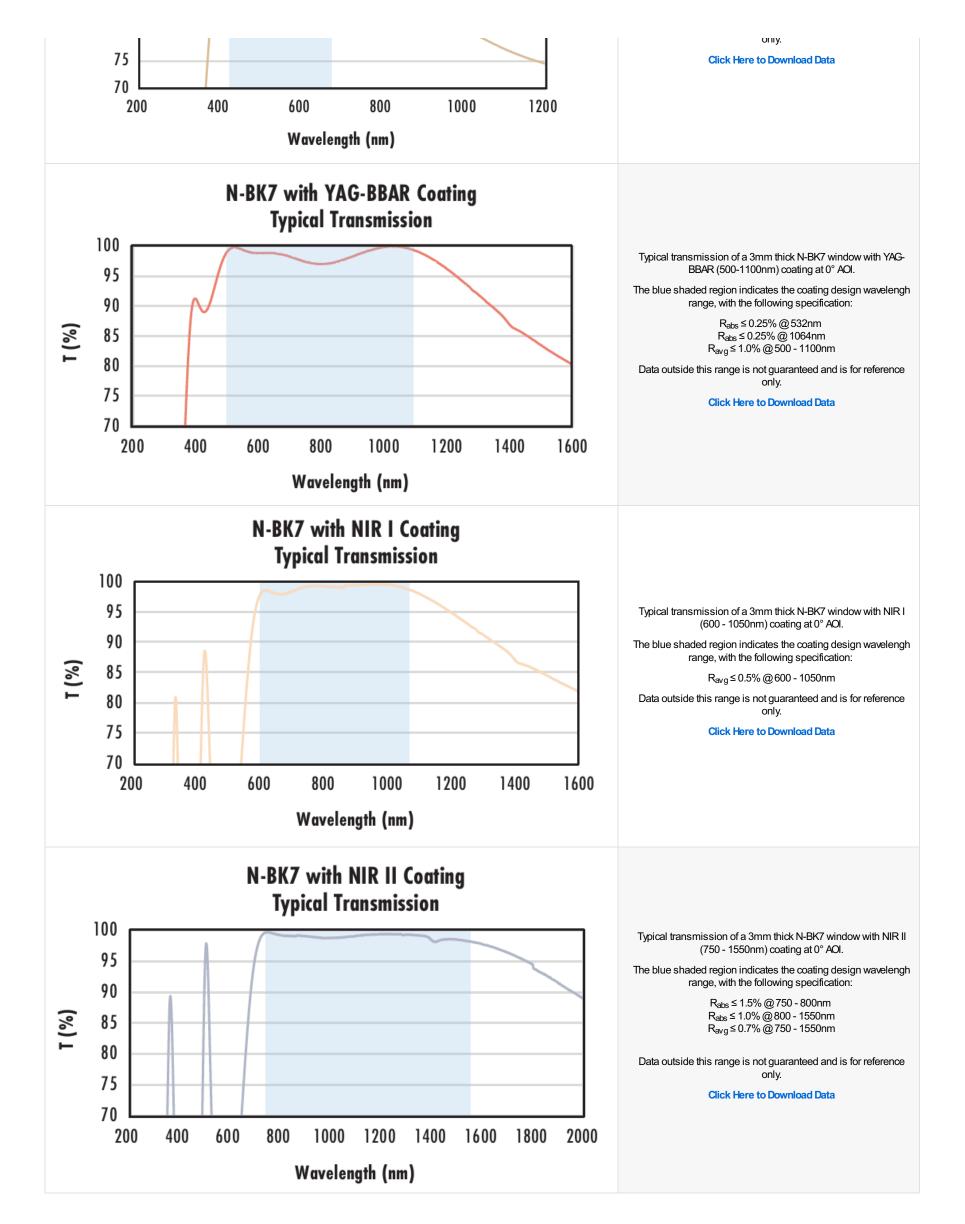
- Negative Focal Lengths for Beam Expansion or Light Projection Applications
- Optimized for R<0.25% at both 532nm and 1064nm

Compliant

- AR Coated to Provide <1.0% Reflectance per Surface for 500 1100nm

• Various Coating Options: Uncoated, VIS-EXT, MgF₂, VIS 0°, VIS-NIR, NIR I, and 1064nm V-Coat
TECHSPEC® YAG-BBAR 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® YAG-BBAR Coated Plano-Concave (PCV) Lenses feature less than 0.25% reflection at common Nd:YAG laser wavelengths of 532nm and 1064nm. These lenses are also available Uncoated, VIS-EXT, MgF₂, VIS 0°, VIS-NIR, NIR I, or with NIR II AR coating options.





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.