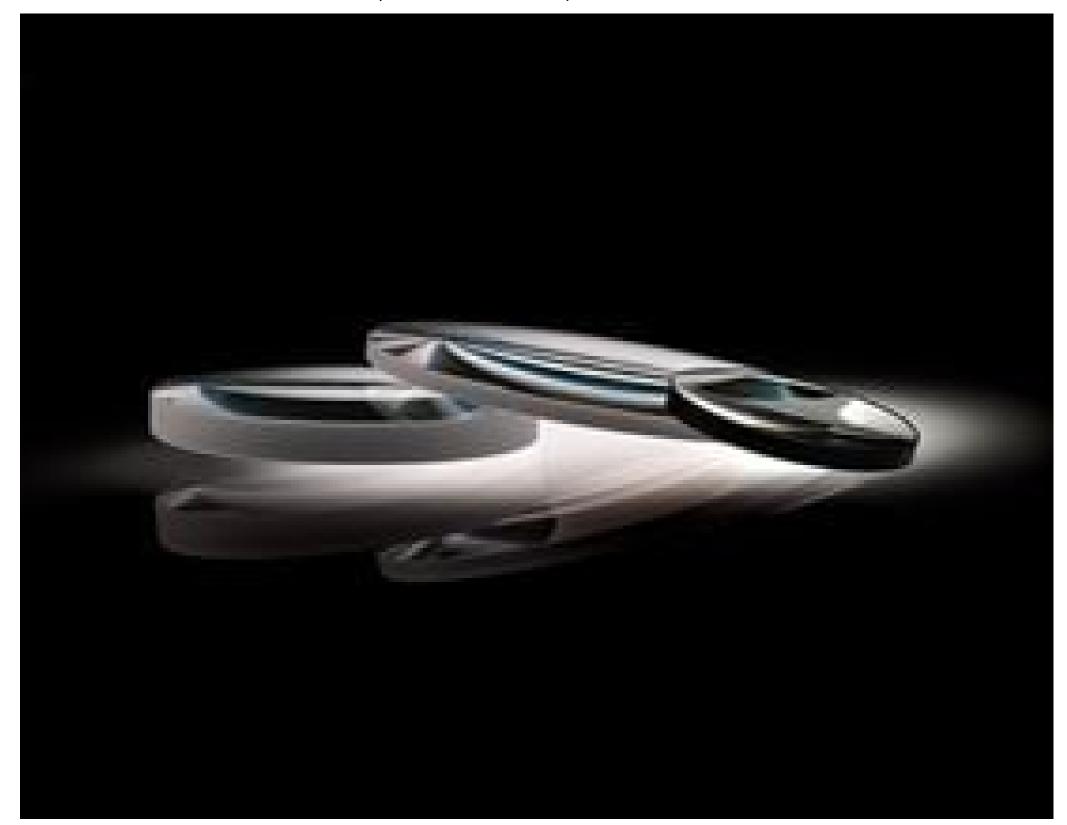


All Products / Optics / Optics / Double-Convex (DCX) Lenses / VIS-NIR Coated Double-Convex (DCX) Lenses

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TECHSPEC! 40mm Dia. x 200mm FL, VIS-NIR Coated, Double-Convex Lens









- 1 + £63.04

ADD TO CART

Volume Pricing	
Qty 1-9	£63.04 each
Qty 10-24	£56.91 each
Qty 25-99	£50.35 each
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Product Downloads

SPECIFICATIONS

Type: Double-Convex Lens	
Physical & Mechanical Properties	
Diameter (mm): 40.00 +0.0/-0.025	
Centering (arcmin):	
Bevel: Protective as needed	
Center Thickness CT (mm): 8.00	
Center Thickness Tolerance (mm): ±0.10	
Edge Thickness ET (mm):	
Clear Aperture CA (mm):	
Optical Properties	
Back Focal Length BFL (mm):	
Effective Focal Length EFL (mm): 200.00	
Coating: VIS-NIR (400-1000nm)	
Coating Specification: R _{abs} ≤0.25% @ 880nm R _{avg} ≤1.25% @ 400 - 870 nm R _{avg} ≤1.25% @ 890 - 1000nm	
Substrate: □ N-BK7	
Surface Quality: 40-20	
Power (P-V) @ 632.8nm: 1.5λ	
Irregularity (P-V) @ 632.8nm:	
Radius R₁=-R₂ (mm): 205.35	
f#: 5.00	
Focal Length Specification Wavelength (nm): 587.6	
Focal Length Tolerance (%):	
Numerical Aperture NA:	
Wavelength Range (nm): 400 - 1000	
Damage Threshold, By Design: □ 5 J/cm ² @ 532nm, 10ns	
Regulatory Compliance	
RoHS 2015:	
Certificate of Conformance:	
Reach 235:	

PRODUCT DETAILS

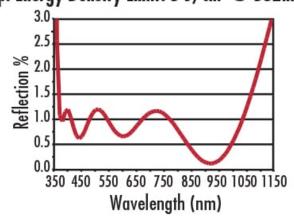
- AR Coated to Provide <1.25% Reflectance per Surface for 400 1000nm
- Minimize Aberrations Including Spherical and Coma
- UV Fused Silica DCX Lenses Available

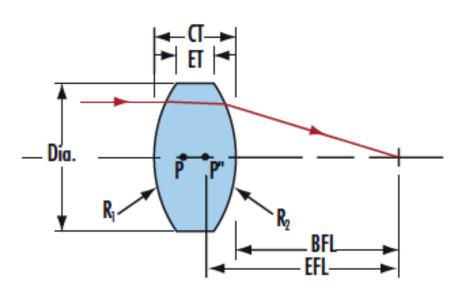
Compliant

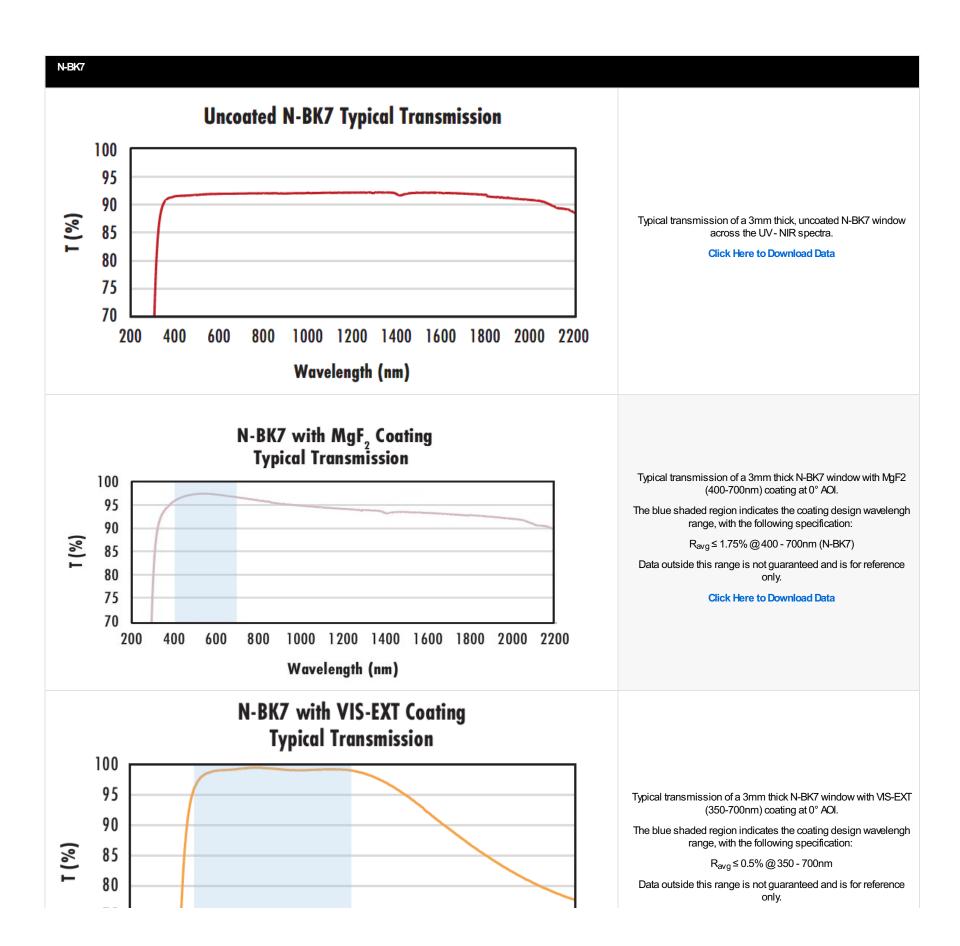
 $\bullet \quad \text{Other Coating Options Available: } \\ \underline{\text{Uncoated, MgF}_2, \text{VIS 0}^\circ, \text{NIR I, NIR II, VIS-EXT, and YAG-BBAR}}$

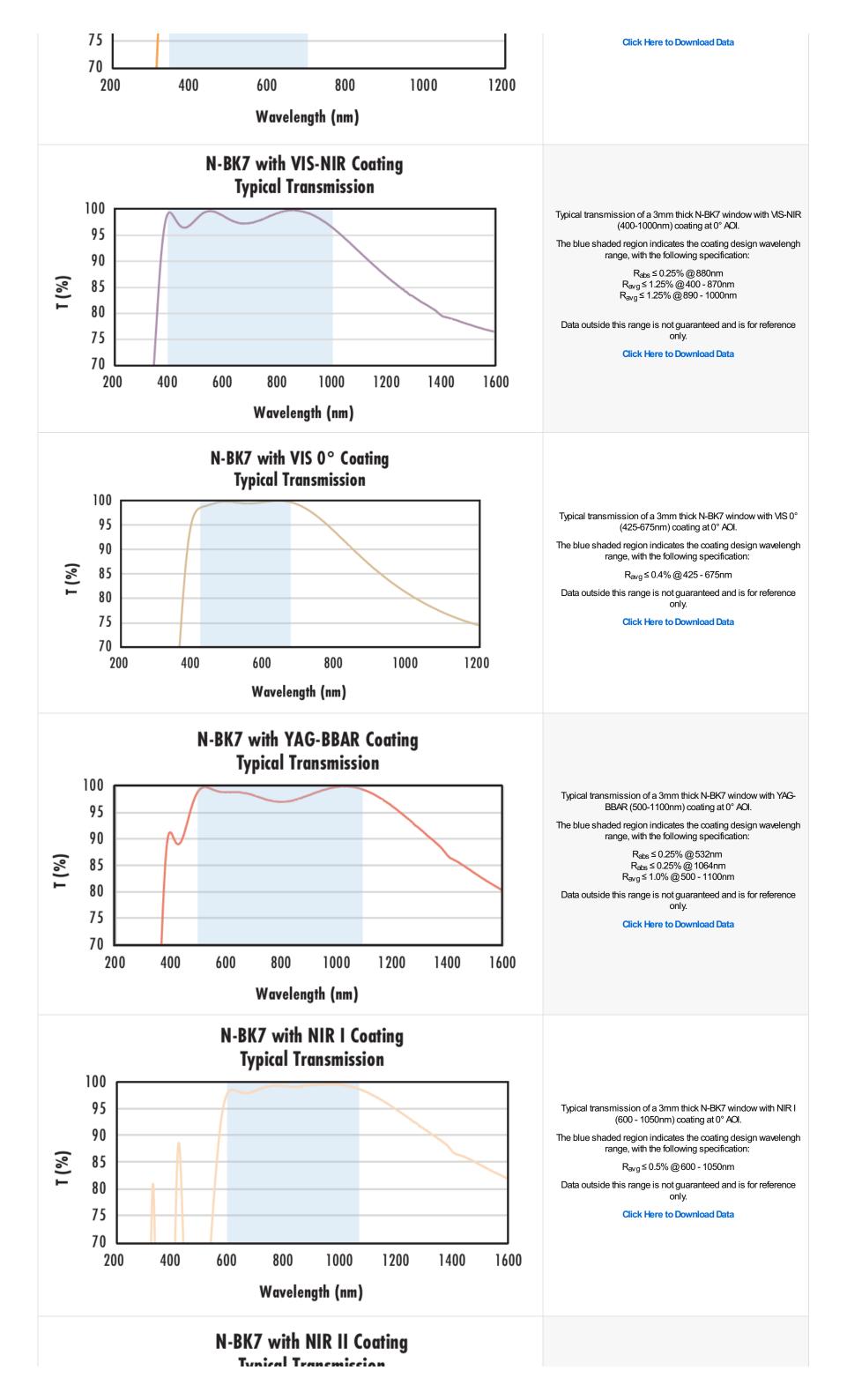
TECHSPEC® MS-NIR Coated Double-Convex (DCX) Lenses, also referred to as bi-convex lenses, have two positive, symmetrical faces with equal radii on both sides. These lenses are generally recommended for finite imaging applications with a conjugate ratio (ratio between object distance and image distance) between 0.2 and 5. At a conjugate ratio of 1, aberrations such as spherical aberration, chromatic aberration, coma, and distortion are minimized or cancelled due to the symmetric lens design. TECHSPEC® VIS-NIR Coated Double-Convex Lenses are available in a variety of substrates and coating options for the visible and NIR spectra.

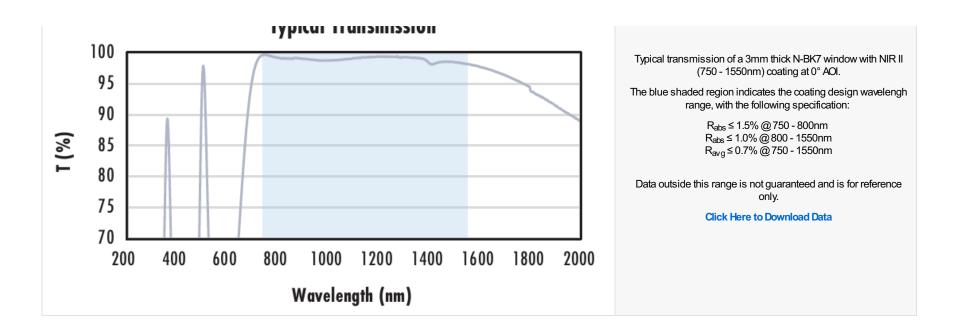
 $\label{eq:VIS-NIR Coating} $$R_{avg} \le 0.25\% @ 880 nm, R_{avg} \le 1.25\% @ 400 - 1000 nm $$ Typ. Energy Density Limit: 5 J/cm^2 @ 532 nm, 10 ns$











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

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COMPATIBLE MOUNTS