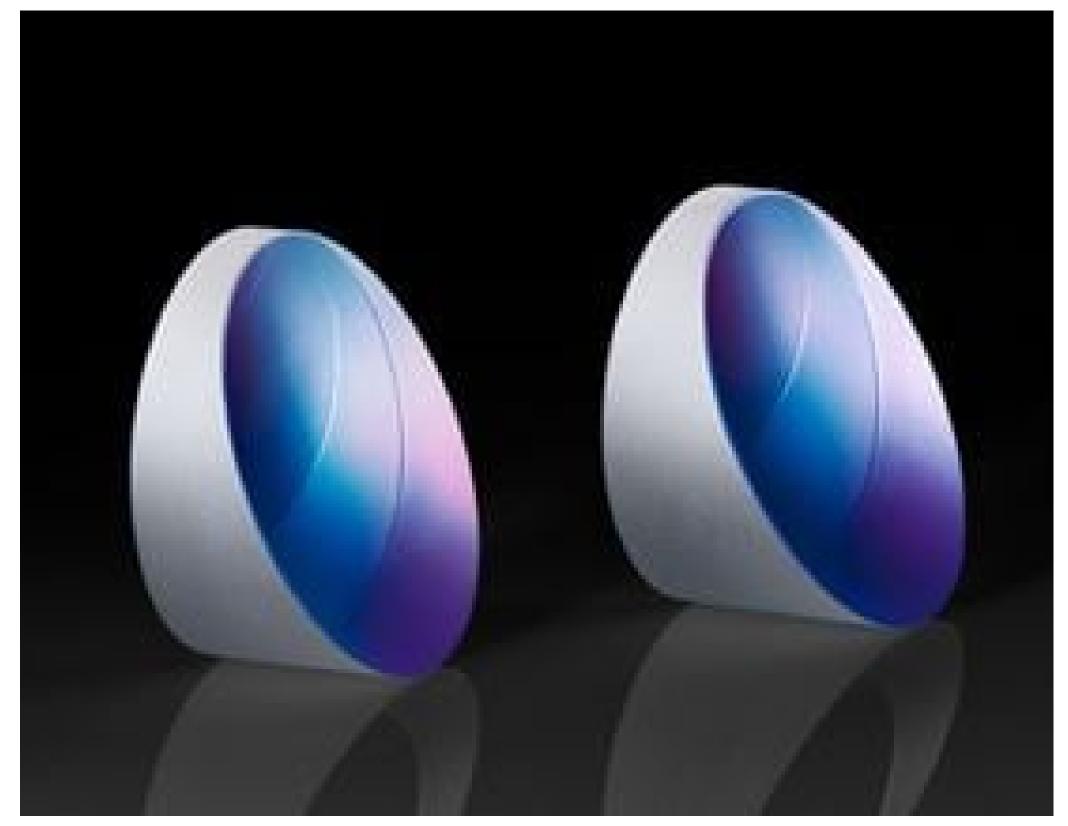


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TECHSPEC 1° Beam Dev. 12.5mm Dia. VIS-NIR, N-BK7 Wedge Prism



Stock **#35-795 5 In Stock**

- 1 (+ £45^{.97}

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Qty 1-5	£45.97 each
Qty 6-25	£36.77 each
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SPECIFICATIONS

General

Note:
Specificy this is S1 & S2 power and irregularity, not the overall power of the wedge

Physical & Mechanical Properties

Diameter (mm):

12.50 +0.00/-0.10

Thickness (mm):

1.50

Bevel:

Wedge Angle (arcmin):

Optical Properties

1° 56'

Angle Tolerance (arcsec): Coating: **VIS-NIR** (400-1000nm) Design Wavelength DWL (nm): 632.8 Substrate: N-BK7 Surface Quality: 20-10 Image Orientation: Beam Deviation Coating Specification: R_{abs} ≤0.25% @ 880nm R_{avg} ≤1.25% @ 400 - 870nm R_{avg} ≤1.25% @ 890 - 1000nm Wavelength Range (nm): 400 - 1000 Power (fringes) @ 632.8nm: 0.50 Irregularity (fringes) @ 632.8nm: 0.20 Ray Deviation @ 633nm (°):

Material Properties

Coefficient of Thermal Expansion CTE (10-6/°C):

Regulatory Compliance

Compliant

RoHS 2015:

Power (diopters):

Wedge Angle (°):

•

Certificate of Conformance:

Viev

1.00

1.74

1.93°

Reach 235:

Compliant

PRODUCT DETAILS

- Ideal for Beam Steering
- 0.5° 15° Beam Deviation Options
- Available Uncoated or Anti-Reflection Coated
- Anamorphic Prism Pair Also Available

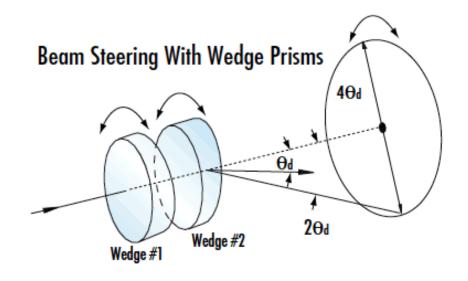
Wedge prisms can be used individually to deviate a laser beam a set angle, or two wedge prisms can be used together for beam steering applications. A single wedge prism's ability to deviate the angle of an incident beam is measured in Diopters with 1 diopter deviating the beam 1cm at a 1m working distance.

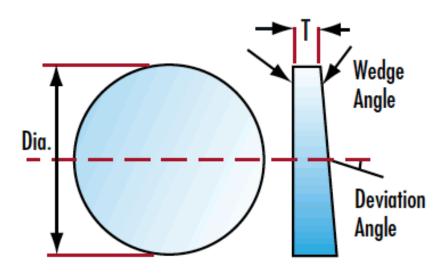
Two wedge prisms can be used as an anamorphic pair for beam shaping (to correct the elliptical shape of diode outputs). Wedge prisms can also be paired to steer a beam anywhere within a circle described by the full angle 4θ, where θ is the deviation from a single prism. This beam steering is accomplished by rotating the two wedge prisms independently of each other and is typically used to scan a beam to different locations in imaging applications.

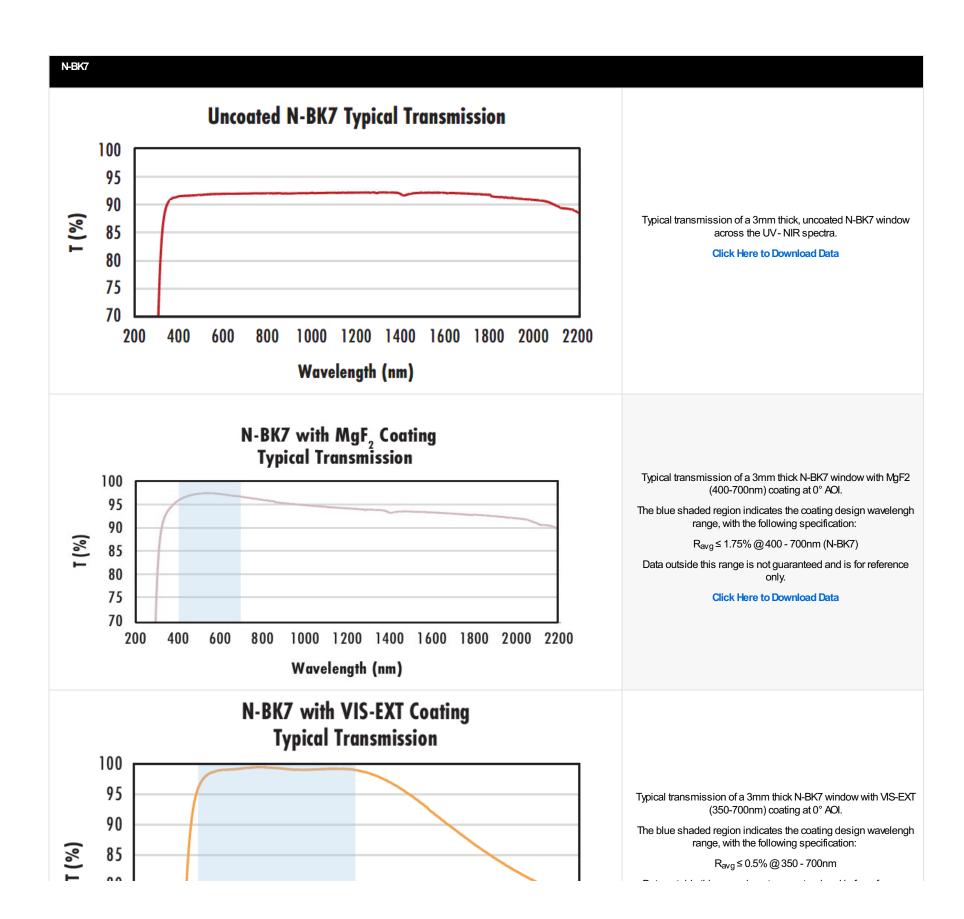
Note: Beam deviation is shown in degrees and diopters. One diopter is 1cm of deviation at a distance of 1m from the prism.

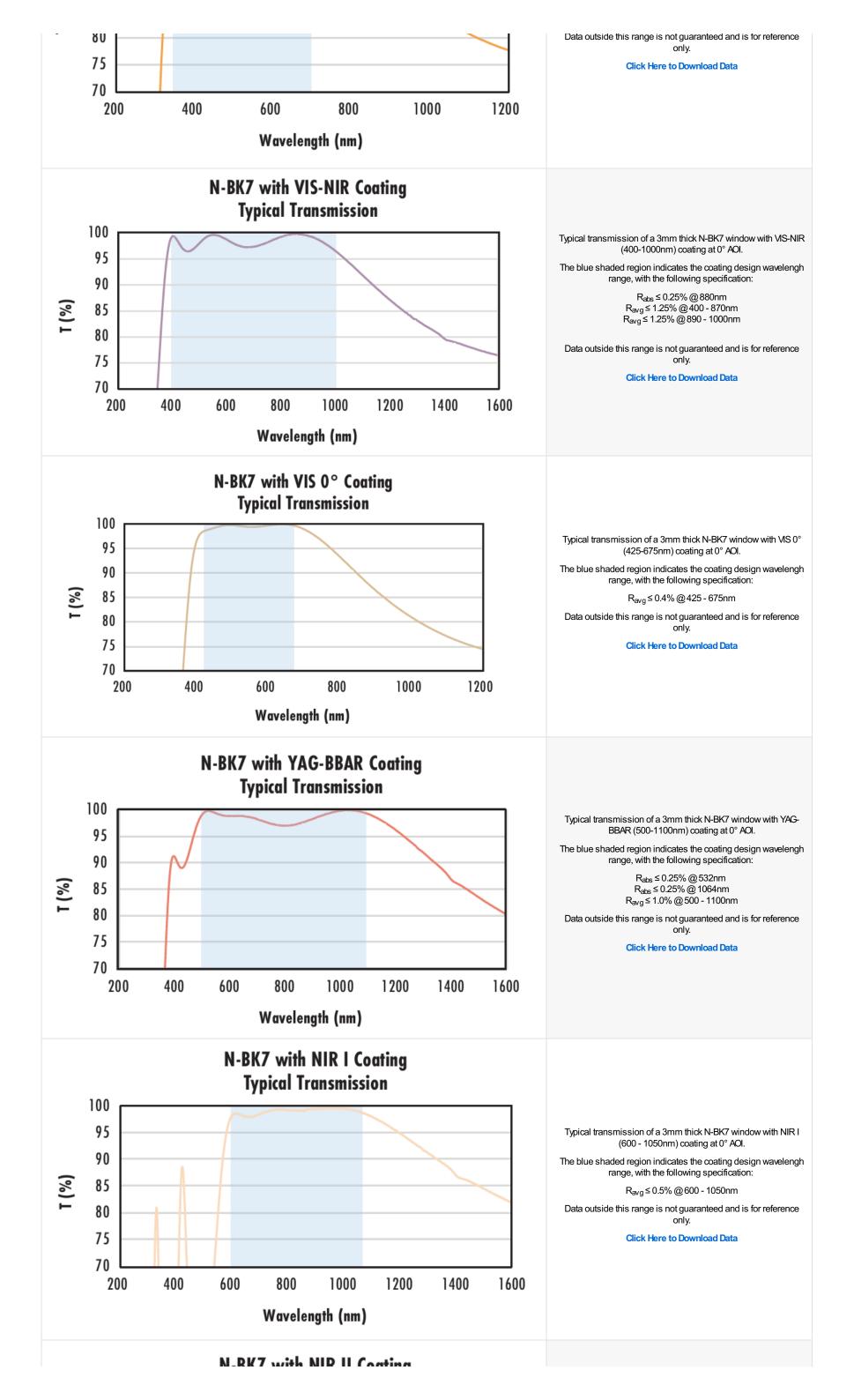


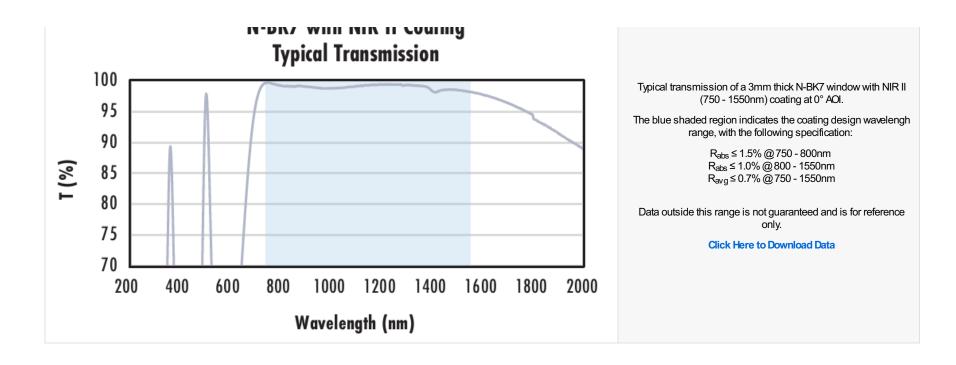
TECHNICAL INFORMATION











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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