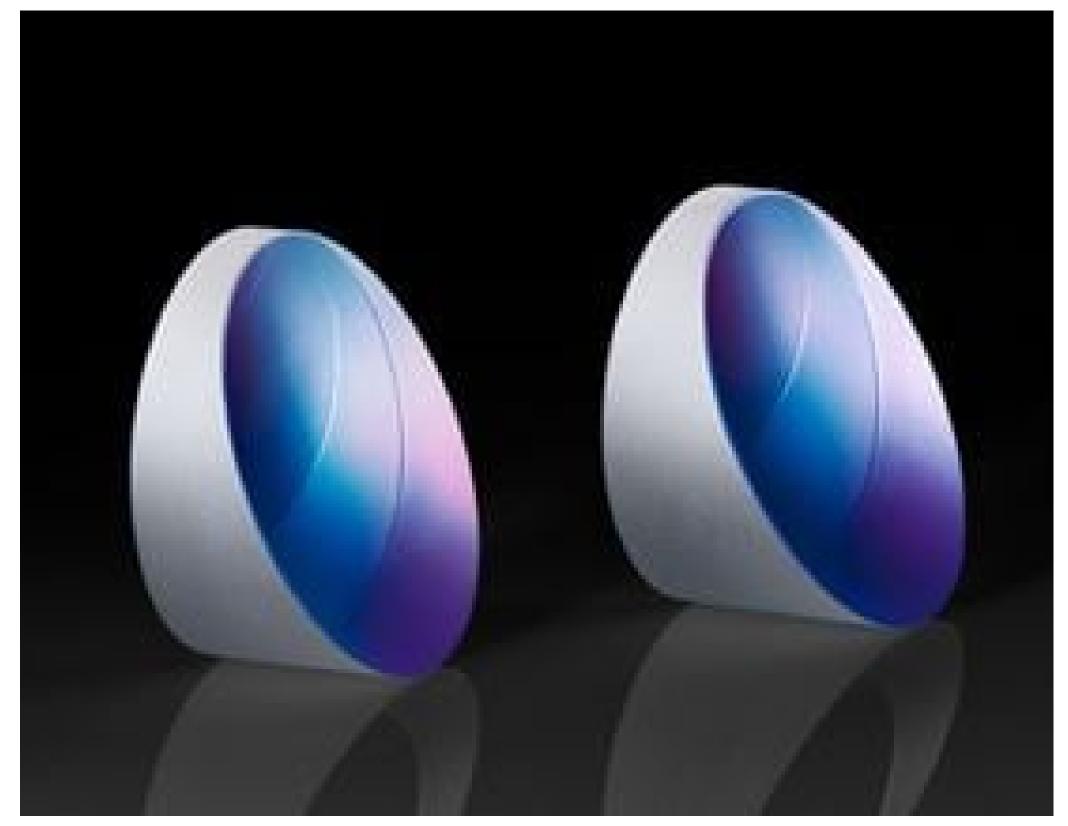


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# TECHSPEC 2° Beam Dev. Uncoated, N-BK7 Wedge Prism



Stock **#43-651 20+ In Stock** 

- 1 (+ £43<sup>.78</sup>

#### **ADD TO CART**

Volume Pricing	
Qty 1-5	£43.78 each
Qty 6-25	£35.02 each
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## **SPECIFICATIONS**

General

the overall power of the wedge **Physical & Mechanical Properties** Diameter (mm): 25.00 +0.00/-0.10 Thickness (mm): 3.00 Bevel: Protective as needed Maximum Edge Thickness (mm): 4.7 Wedge Angle (arcmin): 3° 52' **Optical Properties** Angle Tolerance (arcsec): ±30 Coating: Uncoated Design Wavelength DWL (nm): 632.8 Substrate: N-BK7 Surface Quality: 20-10 Image Orientation: Beam Deviation Wavelength Range (nm): 350 - 2200 Power (fringes) @ 632.8nm: 0.50 Irregularity (fringes) @ 632.8nm: 0.20 Ray Deviation @ 633nm (°): 2.00 Power (diopters): 3.49 Wedge Angle (°): 3.87° **Material Properties** Coefficient of Thermal Expansion CTE (10-6/°C): **Regulatory Compliance** RoHS 2015: Compliant Reach 219: Compliant

### PRODUCT DETAILS

Ideal for Beam Steering

View

- 0.5° 15° Beam Deviation Options
- Available Uncoated or Anti-Reflection Coated

Certificate of Conformance:

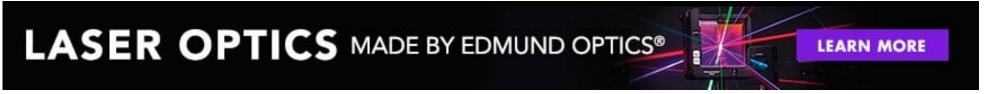
Specificy this is S1 & S2 power and irregularity, not

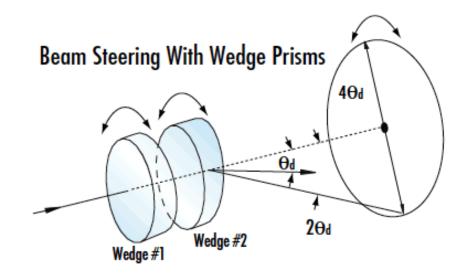
• Anamorphic Prism Pair Also Available

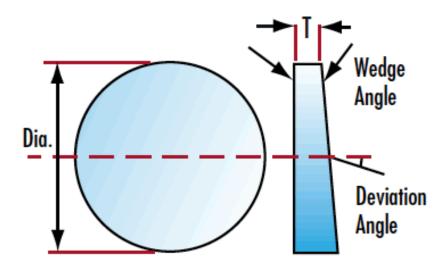
Wedge prisms can be used individually to deviate a laser beam a set angle, or two wedge prisms can be used together for beam steering applications. A single wedge prism's ability to deviate the angle of an incident beam is measured in Diopters with 1 diopter deviating the beam 1cm at a 1m working distance.

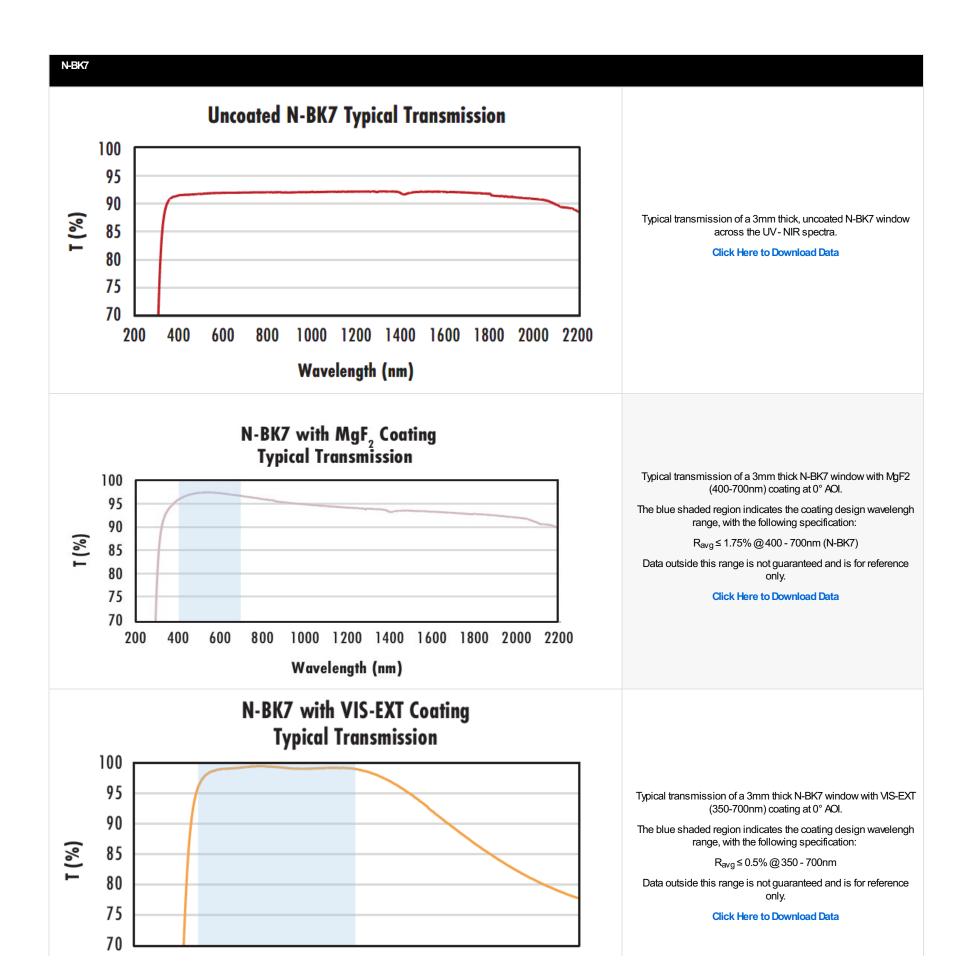
Two wedge prisms can be used as an anamorphic pair for beam shaping (to correct the elliptical shape of diode outputs). Wedge prisms can also be paired to steer a beam anywhere within a circle described by the full angle 4θ, where θ is the deviation from a single prism. This beam steering is accomplished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

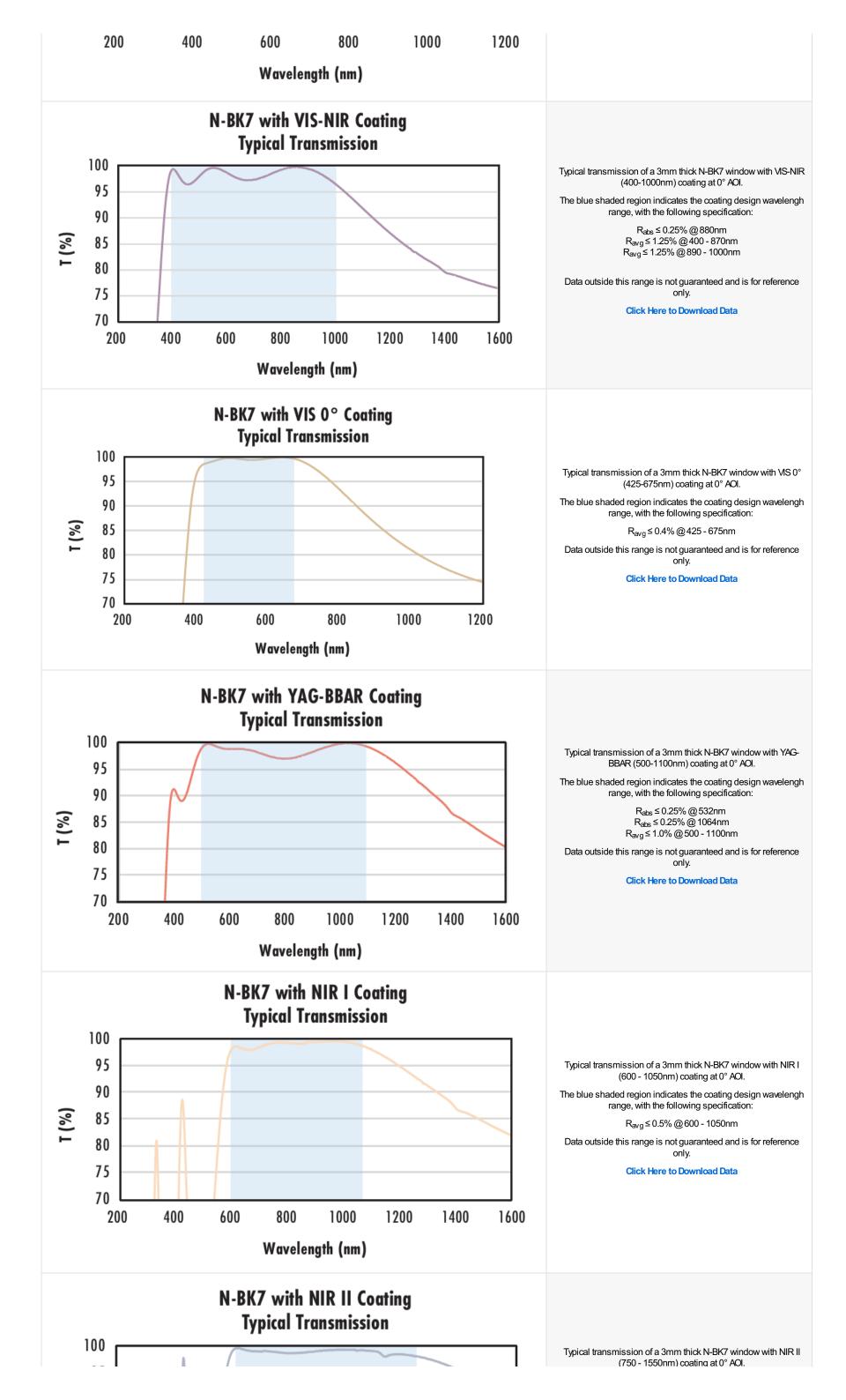
Note: Beam deviation is shown in degrees and diopters. One diopter is 1cm of deviation at a distance of 1m from the prism.

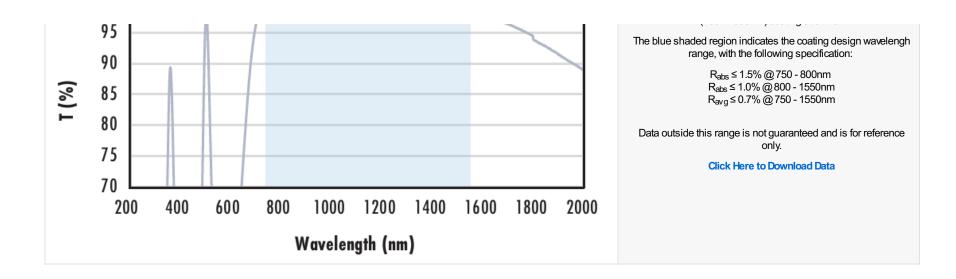












## **CUSTOM**

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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.