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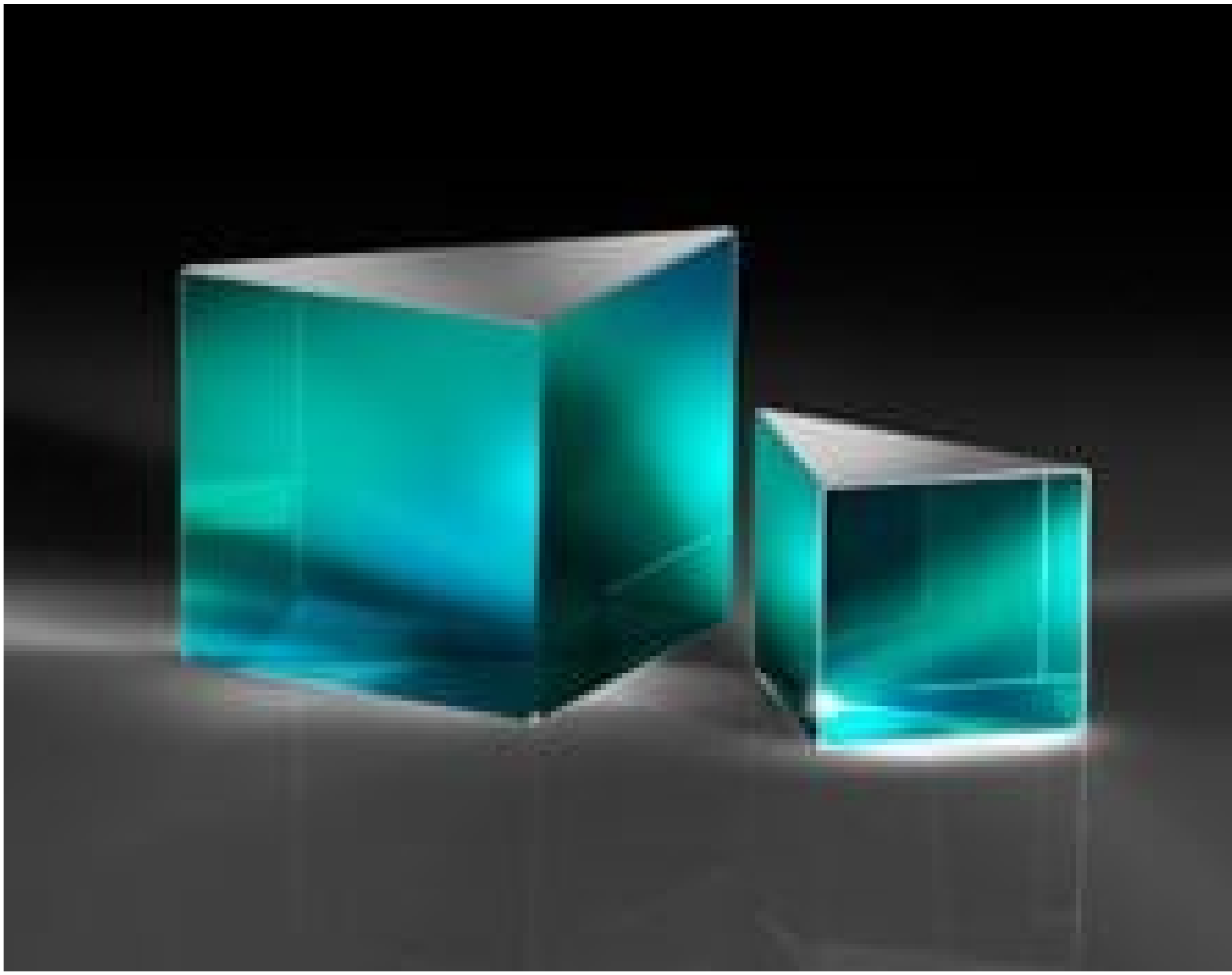
# TECHSPEC® 12.5mm NIR II Coated, N-BK7 Right Angle Prism (Leg Coated)



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## General

**Type:**
Right Angle Prism

**Note:**
Coating on Entrance/Exit Faces

## Physical & Mechanical Properties

**Dimensional Tolerance (mm):**
+0.00/-0.10

**Bevel:**
Protective as needed

**Clear Aperture (%):**
90

**Length of Hypotenuse (mm):**
17.70

**Length of Legs (mm):**
12.50

## Optical Properties

**Angle Tolerance (arcsec):**
±15

**Coating:**
NIR II (750-1550nm)

**Substrate:**
N-BK7

**Surface Quality:**
40-20

**Image Orientation:**
Left-Handed

**Coating Specification:**
$R_{abs}$ ≤1.5% @ 750 - 800nm $R_{abs}$ ≤1.0% @ 800 - 1550nm $R_{avg}$ ≤0.7% @ 750 - 1550nm

**Ray Deviation (°):**
90

**Wavelength Range (nm):**
750 - 1550

**Damage Threshold, Reference:**
Entrance/Exit Faces: 8 J/cm$^2$ @ 1064nm, 10ns

**Power (fringes) @ 632.8nm:**
1.25

**Irregularity (fringes) @ 632.8nm:**
0.25

## Regulatory Compliance

**RoHS 2015:**
Compliant

**Certificate of Conformance:**
View

**Reach 235:**
Compliant

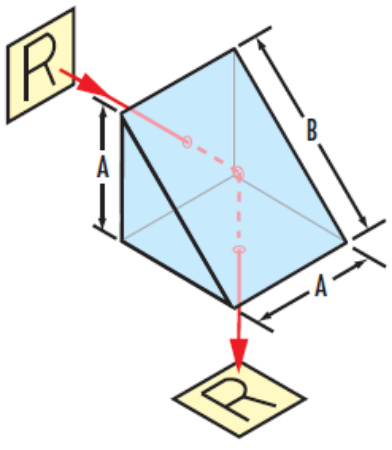
# Product Details

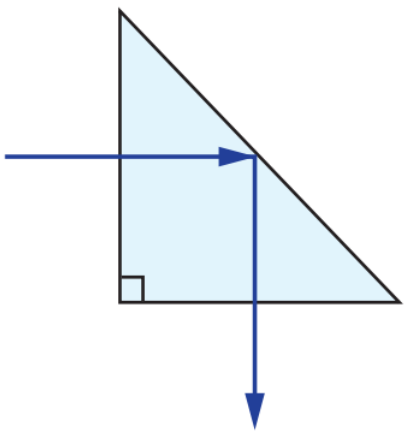
- Ideal for Low Power Laser Sources
- Multiple BBAR Coatings Available
- Ray Deviation of 90°

TECHSPEC® Broadband Anti-Reflection (BBAR) Coated N-BK7 Right Angle Prisms (Leg Coated) are ideal for a range of low power laser line applications. These prisms feature tight angle tolerances and a precision N-BK7 substrate. The BBAR coating improves transmission efficiency when compared to uncoated right angle prisms. TECHSPEC® Broadband Anti-Reflection (BBAR) Coated N-BK7 Right Angle Prisms (Leg Coated) have their BBAR coating on entrance and exit faces. The prisms are available in lengths from 5 to 50mm.

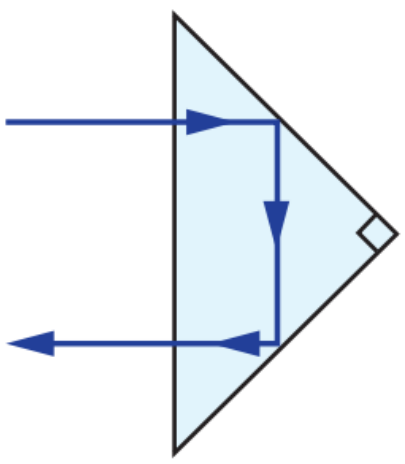
Right angle prisms are generally used to bend image paths or redirect light at 90°. This produces a left-handed image and depending on the orientation of the prism, the image may be inverted or reverted. Right angle prisms can also be used in combination for image/beam displacement.

# Technical Information





*Right Angle Prism Ray Path*



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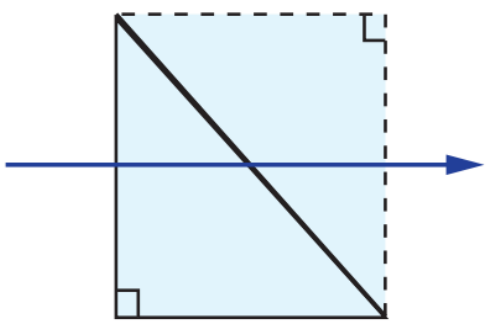
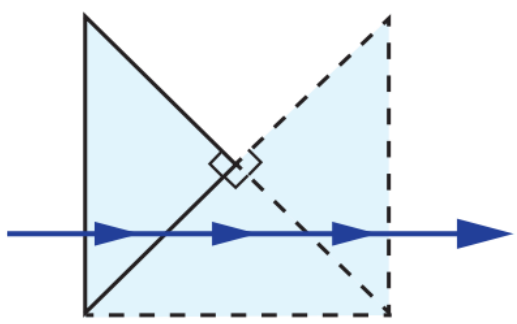


*Right Angle Prism Tunnel Diagram*



*Right Angle Prism Tunnel Diagram*

# 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.**

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