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TECHSPEC® 25mm, MgF₂ Coated , Penta Prism



Stock #42-779 **20+ In Stock**

- 1 + C\$198⁰⁰

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| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | C\$198.80 each |
| Qty 6-25 | C\$159.60 each |
| Qty 26-49 | C\$148.40 each |
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Product Downloads

General

Penta Prism **Type:**

Physical & Mechanical Properties

25.00 **Length (mm):**

±0.10 **Dimensional Tolerance (mm):**

Protective as needed **Bevel:**

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

Optical Properties

MgF₂ & Aluminized **Coating:**

[N-BK7](#) **Substrate:**

60-40 **Surface Quality:**

Right-Handed **Image Orientation:**

Coating Specification:
Entrance/Exit Faces: R_{avg} ≤ 1.75% @ 400 - 700nm
Reflecting Surfaces: Aluminized, Inconel & Black Paint

90 **Ray Deviation (°):**

400 - 700 **Wavelength Range (nm):**

Damage Threshold, By Design:
Entrance & Exit Faces: 10 J/cm² @ 532nm, 10ns
Reflecting Surfaces: 0.3 J/cm² @ 532 & 1064nm, 10ns

±5 **Beam Deviation Tolerance (arcmin):**

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

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

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[Compliant](#) **Reach 223:**

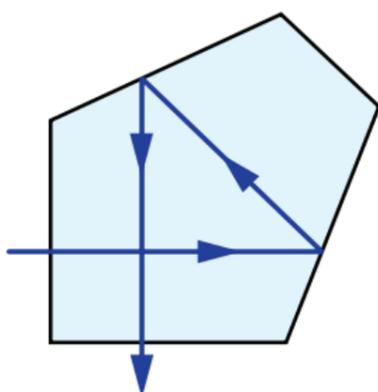
[View](#) **Certificate of Conformance:**

Product Details

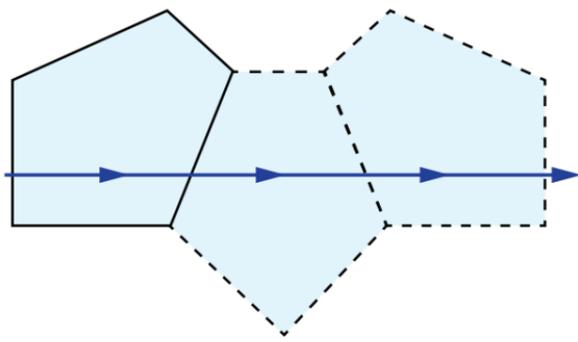
- Ray Deviation of 90°
- Right Handed Image
- Optical Tool for Defining a Right Angle
- Additional [Penta Prism](#) Options Available

TECHSPEC® N-BK7 Penta Prisms are five-sided prisms featuring a ray deviation of 90° and a right-handed image. The reflecting surfaces are aluminized. Slight movement of the prism does not affect the true right angle at which light rays are reflected, making a penta prism the ideal optical tool for defining a right angle in an optical system. TECHSPEC® N-BK7 Penta Prisms are made from precision N-BK7 for use in a variety of visible light applications. These prisms are offered with a VIS 0° or MgF₂ coating, in a variety of sizes.

Technical Information

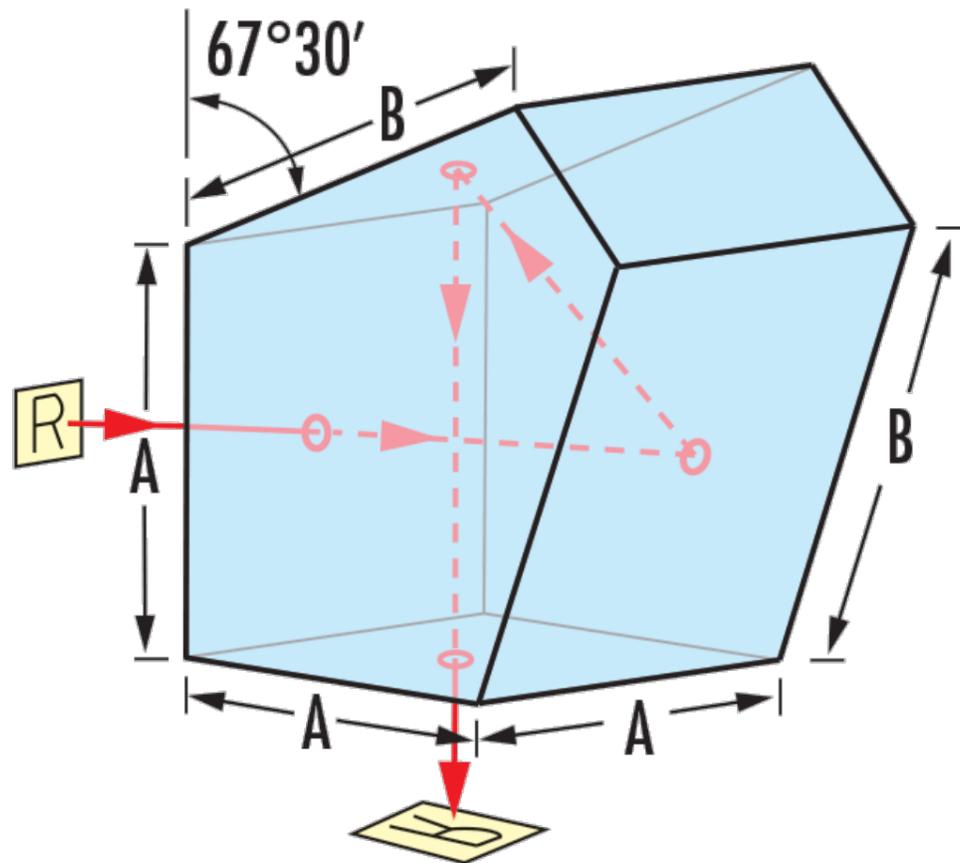


Penta Prism Ray Path



Penta Prism Tunnel Diagram

| Stock No. | Coating | Dimensions | |
|-----------|------------------|------------|-------|
| | | A | B |
| #85-159 | MS 0° | 0.50 | 0.60 |
| #85-160 | MS 0° | 1.00 | 1.20 |
| #45-112 | MgF ₂ | 5.00 | 6.10 |
| #48-595 | MS 0° | | |
| #32-030 | MgF ₂ | 10.00 | 11.95 |
| #48-596 | MS 0° | | |
| #43-502 | MgF ₂ | 15.00 | 15.96 |
| #48-597 | MS 0° | | |
| #31-051 | MgF ₂ | 20.00 | 21.65 |
| #48-598 | MS 0° | | |
| #42-779 | MgF ₂ | 25.00 | 27.90 |
| #47-458 | MgF ₂ | | |
| #48-599 | MS 0° | | |
| #45-073 | MgF ₂ | 30.00 | 32.47 |
| #48-600 | MS 0° | | |
| #45-402 | MgF ₂ | 35.00 | 37.88 |
| #48-601 | MS 0° | | |
| #45-674 | MgF ₂ | 40.00 | 43.30 |
| #48-602 | MS 0° | | |
| #45-675 | MgF ₂ | 45.00 | 48.71 |
| #48-603 | MS 0° | | |
| #45-676 | MgF ₂ | 50.00 | 54.12 |
| #47-459 | MgF ₂ | | |
| #48-604 | MS 0° | | |



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](#).

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