

**TECHSPEC® 25mm, MgF<sub>2</sub> Coated, High Tolerance Penta Prism**



Stock #47-458 **20+ In Stock**

- 1 + €178<sup>.00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	€178,00 each
Qty 6-25	€142,00 each
Qty 26-49	€133,00 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Penta Prism **Type:**

**Physical & Mechanical Properties**

25.00 **Length (mm):**

±0.10 **Dimensional Tolerance (mm):**

Protective as needed	<b>Bevel:</b>
25.00	<b>Length of Legs (mm):</b>
<b>Optical Properties</b>	
MgF <sub>2</sub> & Aluminized	<b>Coating:</b>
<a href="#">N-BK7</a>	<b>Substrate:</b> <input type="checkbox"/>
40-20	<b>Surface Quality:</b>
Right-Handed	<b>Image Orientation:</b>
<b>Coating Specification:</b> Entrance/Exit Faces: R <sub>avg</sub> ≤ 1.75% @ 400 - 700nm Reflecting Surfaces: Aluminized, Inconel & Black Paint	
90	<b>Ray Deviation (°):</b>
400 - 700	<b>Wavelength Range (nm):</b>
<b>Damage Threshold, By Design:</b> <input type="checkbox"/> Entrance & Exit Faces: 10 J/cm <sup>2</sup> @ 532nm, 10ns Reflecting Surfaces: 0.3 J/cm <sup>2</sup> @ 532 & 1064nm, 10ns	
±1	<b>Beam Deviation Tolerance (arcmin):</b>
1.00	<b>Power (fringes) @ 632.8nm:</b>
0.25	<b>Irregularity (fringes) @ 632.8nm:</b>

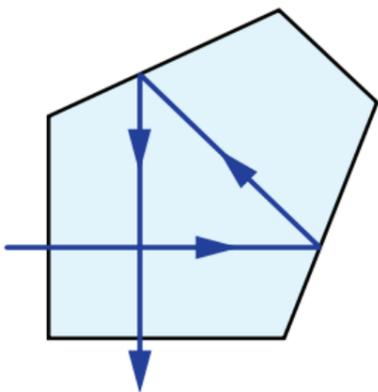
<b>Regulatory Compliance</b>	
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">Compliant</a>	<b>Reach 223:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>

## Product Details

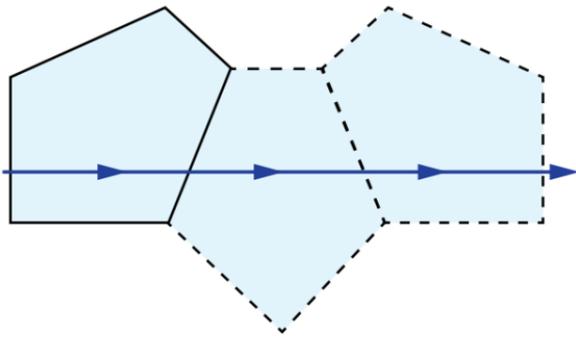
- Ray Deviation of 90°
- Right Handed Image
- Optical Tool for Defining a Right Angle
- Additional [Penta Prism](#) Options Available

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 MgF<sub>2</sub> coating, in a variety of sizes.

## Technical Information

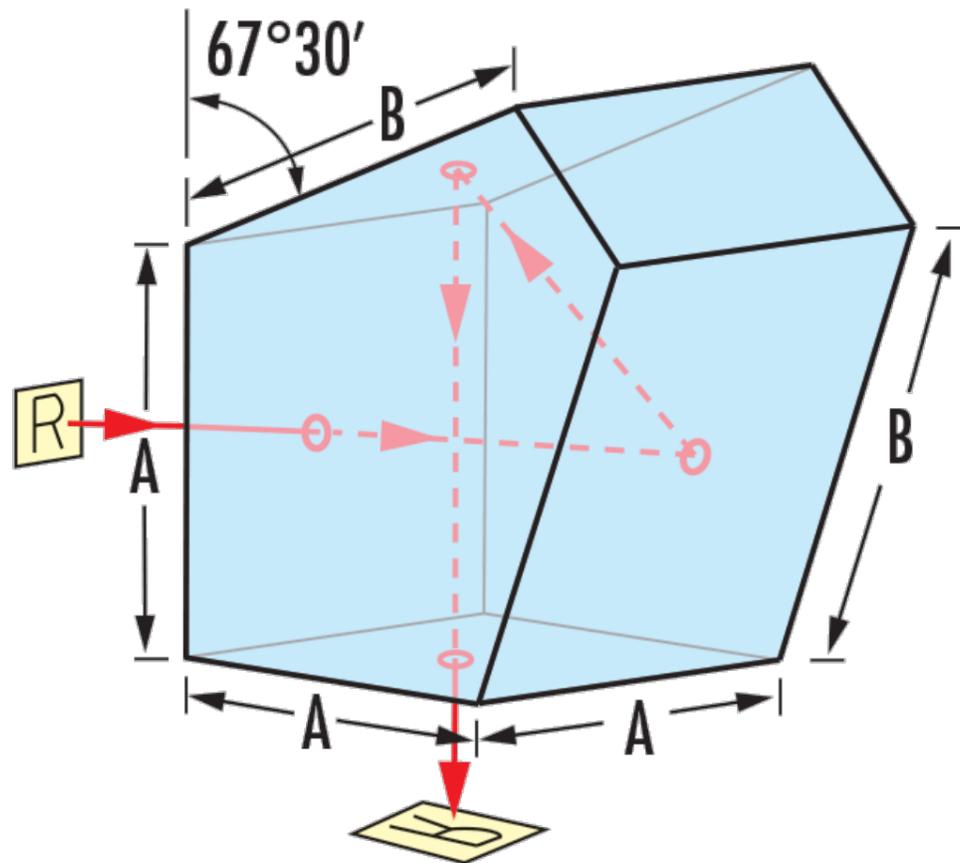


Penta Prism Ray Path



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 <sub>2</sub>	5.00	6.10
#48-595	MS 0°		
#32-030	MgF <sub>2</sub>	10.00	11.95
#48-596	MS 0°		
#43-502	MgF <sub>2</sub>	15.00	15.96
#48-597	MS 0°		
#31-051	MgF <sub>2</sub>	20.00	21.65
#48-598	MS 0°		
#42-779	MgF <sub>2</sub>	25.00	27.90
#47-458	MgF <sub>2</sub>		
#48-599	MS 0°		
#45-073	MgF <sub>2</sub>	30.00	32.47
#48-600	MS 0°		
#45-402	MgF <sub>2</sub>	35.00	37.88
#48-601	MS 0°		
#45-674	MgF <sub>2</sub>	40.00	43.30
#48-602	MS 0°		
#45-675	MgF <sub>2</sub>	45.00	48.71
#48-603	MS 0°		
#45-676	MgF <sub>2</sub>	50.00	54.12
#47-459	MgF <sub>2</sub>		
#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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