

TECHSPEC[®] 25mm, MgF₂ Coated , Penta Prism



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

-

1

+

S\$194^{.16}

ADD TO CART

Volume Pricing	
Qty 1-5	S\$194.16 each
Qty 6-25	S\$155.32 each
Qty 26-49	S\$145.62 each
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SPECIFICATIONS

General

Type:
Penta Prism

Physical & Mechanical Properties

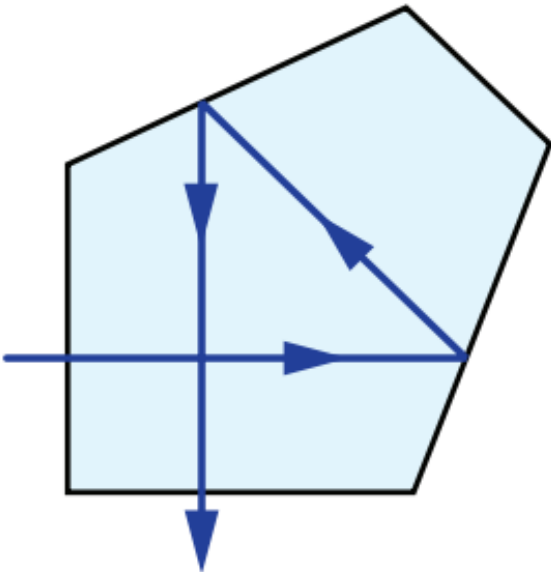
25.00	Length (mm):
±0.10	Dimensional Tolerance (mm):
Protective as needed	Bevel:
25.00	Length of Legs (mm):
Optical Properties	
MgF ₂ & Aluminized	Coating:
N-BK7	Substrate: ☐
60-40	Surface Quality:
Right-Handed	Image Orientation:
Coating Specification: Entrance/Exit Faces: R _{avg} ≤1.75% @ 400 - 700nm Reflecting Surfaces: Aluminized, Inconel & Black Paint	
90	Ray Deviation (°):
400 - 700	Wavelength Range (nm):
Damage Threshold, By Design: ☐ Entrance & Exit Faces: 10 J/cm ² @ 532nm, 10ns Reflecting Surfaces: 0.3 J/cm ² @ 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

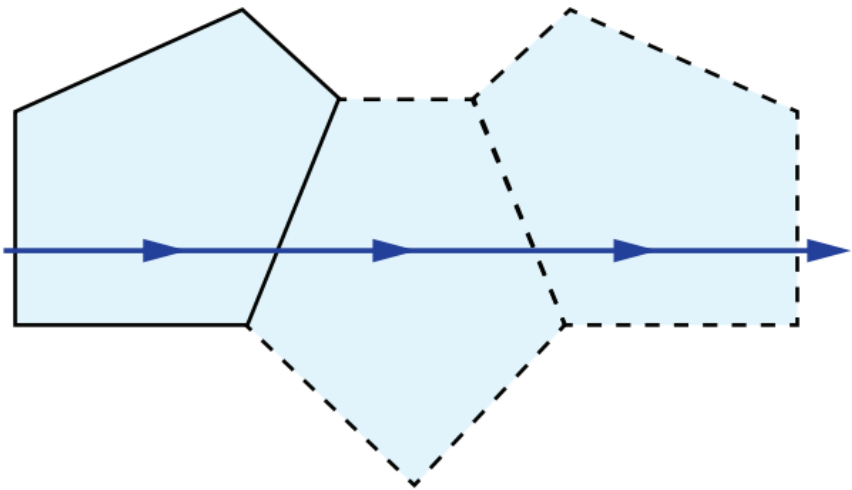
- Ray Deviation of 90°
- Right Handed Image
- Optical Tool for Defining a Right Angle
- Additional [Penta Prism](#) Options Available

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

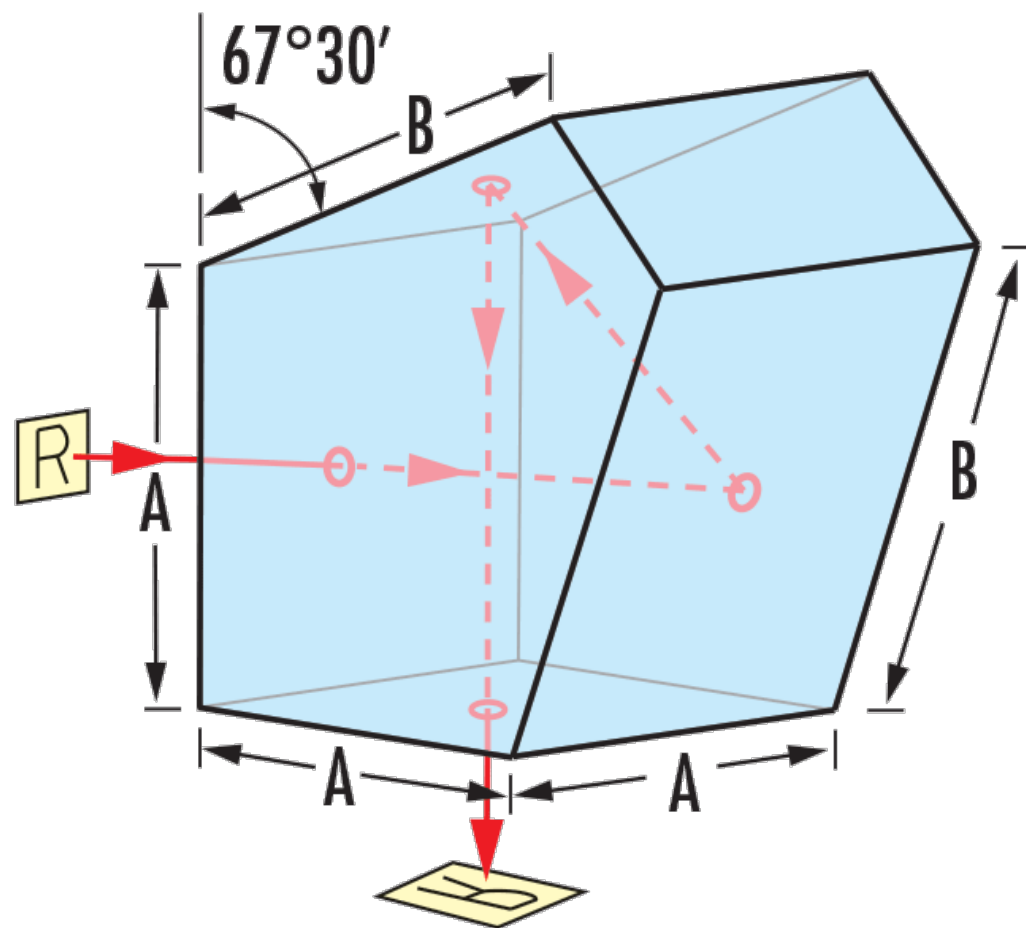


Penta Prism Ray Path



Penta Prism Tunnel Diagram

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