

TECHSPEC[®] 5mm UV-AR Coated and Aluminized, Fused Silica Penta Prism



Stock **#49-020** CLEARANCE **2 In Stock**

-

1

+

£84^{.96}

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Volume Pricing	
Qty 1+	£84.96 each
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 Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:
Penta Prism

Physical & Mechanical Properties

Dimensional Tolerance (mm):
±0.10

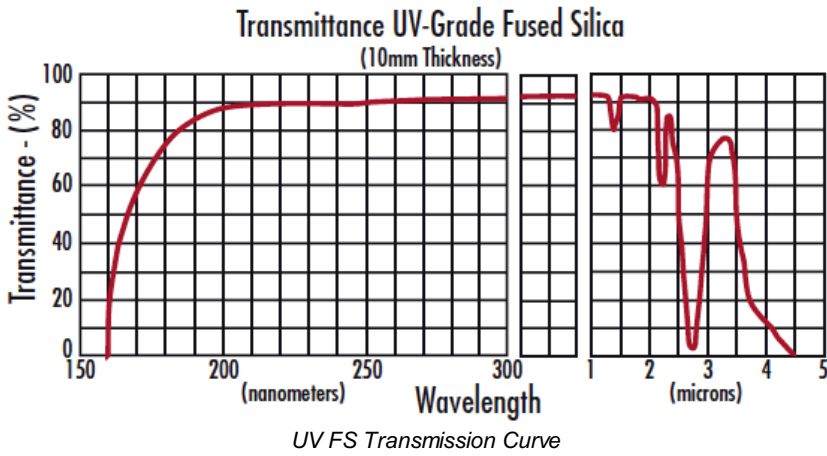
Protective as needed	Bevel:
Length of Legs (mm):	
5.00	
Optical Properties	
UV-AR & Aluminized	Coating:
Fused Silica (Corning 7980)	Substrate: □
Surface Quality:	
20-10	
Angle Tolerance (arcmin):	
±1	
Image Orientation:	
Right-Handed	
Coating Specification: Entrance/Exit Faces: R _{abs} ≤1.0% @ 250 - 425nm, R _{avg} ≤0.75% @ 250 - 425nm, R _{avg} ≤0.5% @ 370 - 420nm Reflecting Surfaces: R _{avg} >85% @ 250 - 700nm w/Black Overpaint	
Ray Deviation (°):	
90	
Wavelength Range (nm):	
250 - 425	
Damage Threshold, By Design: □ Entrance/Exit Faces: 3 J/cm2 @ 355nm, 10ns Reflecting Surfaces: 0.3 J/cm2 @ 532nm & 1064nm, 10ns	
Power (fringes) @ 632.8nm:	
0.20	
Irregularity (fringes) @ 632.8nm:	
0.20	
Regulatory Compliance	
Certificate of Conformance:	
View	

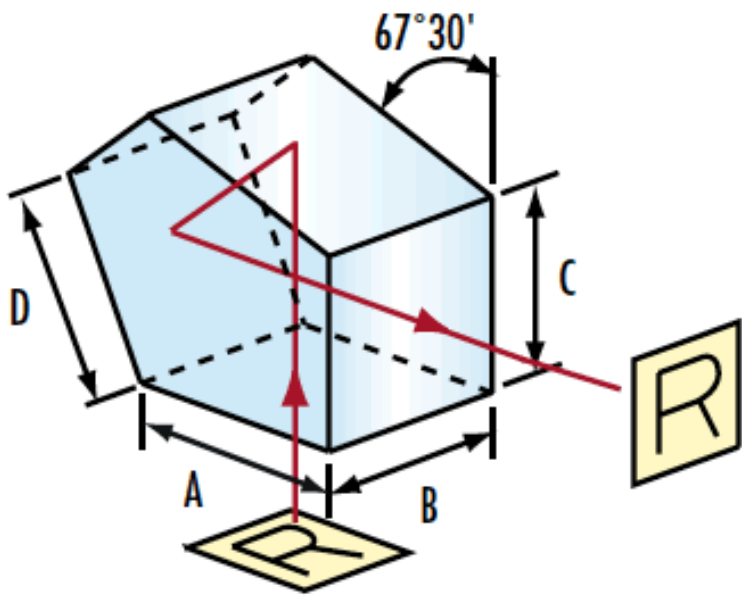
PRODUCT DETAILS

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

Penta prisms are five-sided prisms featuring a ray deviation of 90° and a right handed image. The UV-AR coated options also have aluminized reflecting surfaces for increased efficiency. 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® UV Fused Silica Penta Prisms are made from UV fused silica which features low thermal expansion and excellent transmission throughout the UV, VIS, and NIR spectral ranges.

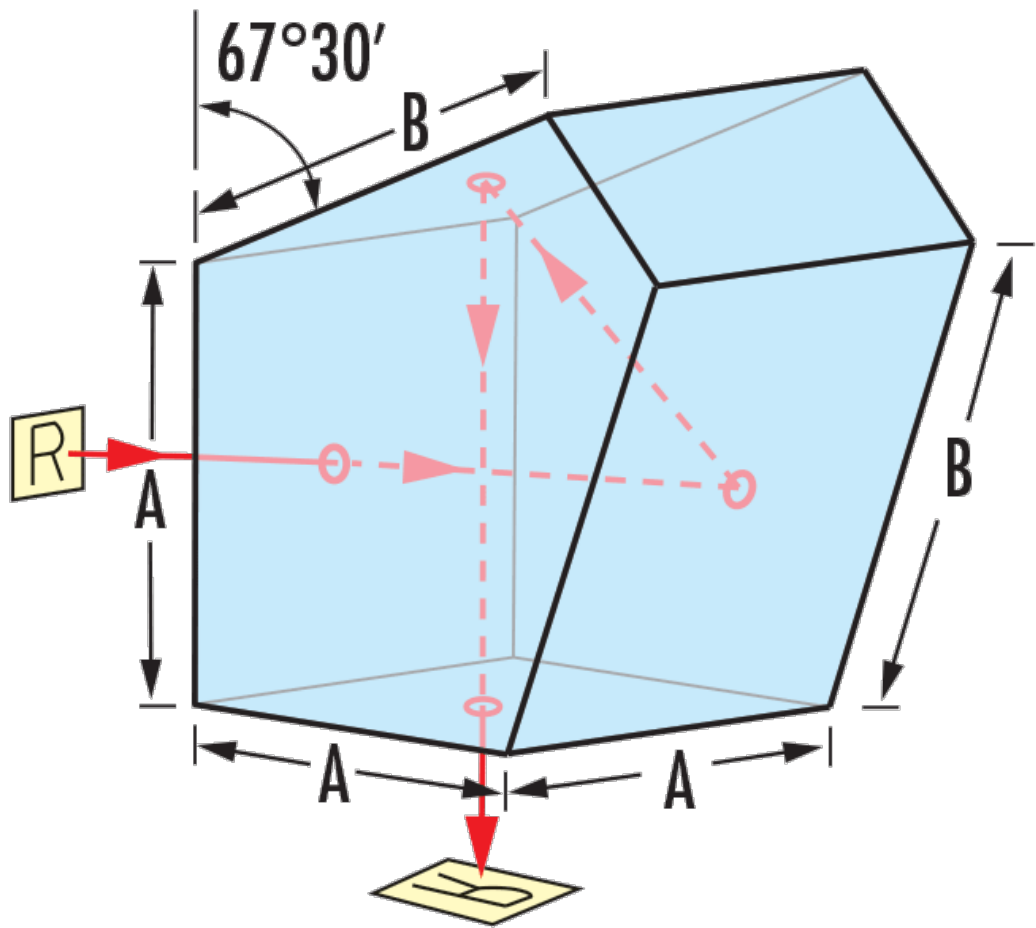
TECHNICAL INFORMATION





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Stock No.	A	B
#49-016	5.00mm	6.10mm
#49-020		
#49-017	10.00mm	11.95mm
#49-021		
#49-018	20.00mm	21.65mm
#49-022		
#49-019	25.00mm	27.90mm
#49-023		



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](#).