

TECHSPEC[®] 5mm, 1064nm V-Coat, Fused Silica High Power Laser Line RA Prism



Stock **#83-329** 5 In Stock

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1

+

S\$226^{.80}

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Volume Pricing	
Qty 1-5	S\$226.80 each
Qty 6-25	S\$180.60 each
Qty 26-49	S\$170.80 each
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SPECIFICATIONS

General

Type:
Right Angle Prism

Physical & Mechanical Properties

Dimensional Tolerance (mm):
+0.00/-0.10

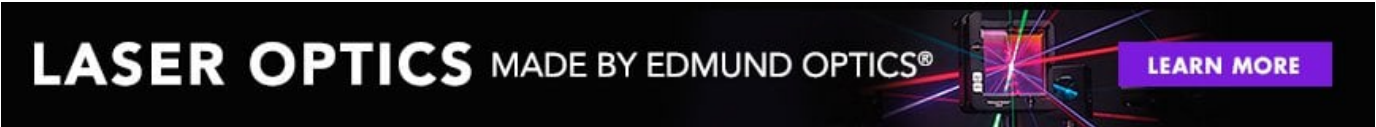
Protective as needed	Bevel:
7.10	Length of Hypotenuse (mm):
5.00	Length of Legs (mm):
Optical Properties	
±40	Angle Tolerance (arcsec):
Laser V-Coat (1064nm)	Coating:
1064	Design Wavelength DWL (nm):
Fused Silica (Corning 7980)	Substrate:
20-10	Surface Quality:
±1	Pyramid Tolerance (arcmin):
Left-Handed	Image Orientation:
R _{abs} <0.25% @ 1064nm	Coating Specification:
90	Ray Deviation (°):
15 J/cm ² @ 1064nm, 20ns, 20Hz	Damage Threshold, By Design:
1.25	Power (fringes) @ 632.8nm:
0.20	Irregularity (fringes) @ 632.8nm:
Regulatory Compliance	
Compliant	RoHS 2015:
Compliant	Reach 209:
View	Certificate of Conformance:

PRODUCT DETAILS

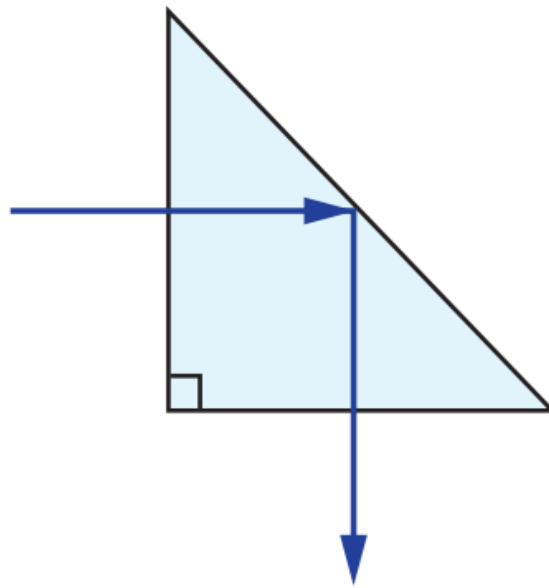
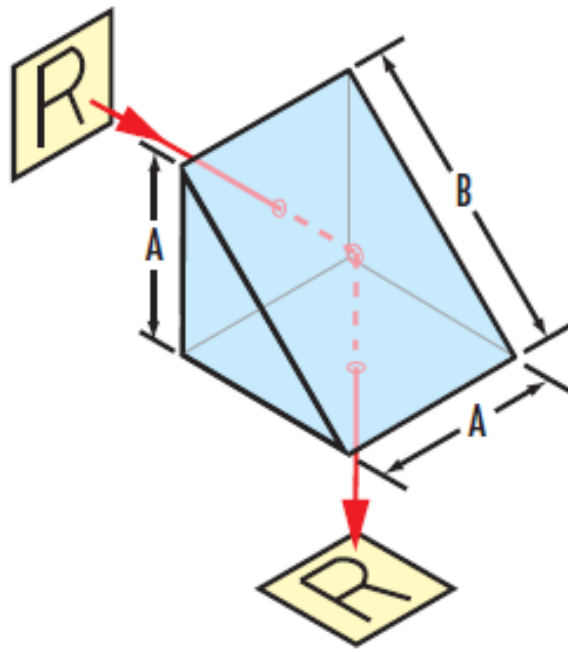
- 355nm, 532nm and 1064nm Options Available
- High Damage Threshold
- Ray Deviation of 90°
- Additional [Right Angle Prisms](#) Available

TECHSPEC® High Power Laser Line Right Angle Prisms provide high damage thresholds ranging from 2 - 5J/cm² allowing for easy integration into most Nd:YAG laser systems. They feature low arcsecond angle tolerance and are made from precision UV fused silica, making them ideal for laser based applications requiring precise alignment.

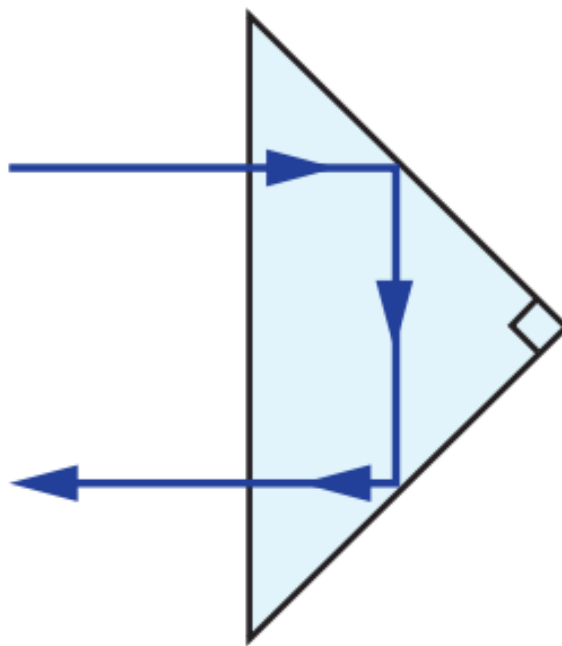
Right angle prisms are generally used to bend image paths or redirect light at 90°. This produces a left handed image and depending on the orientation of the prism, the image may be inverted or reverted. Right angle prisms can also be used in combination for image/beam displacement.



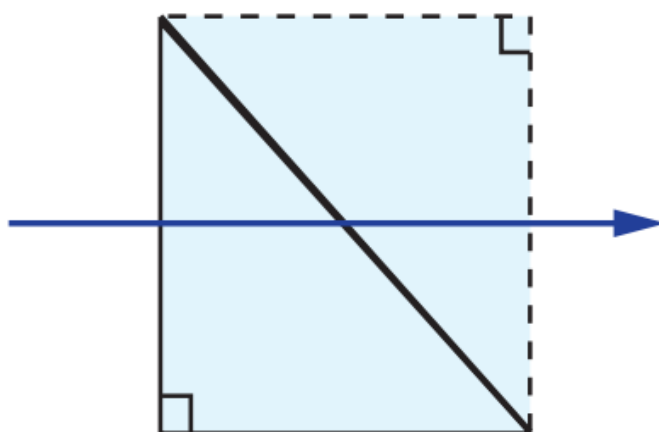
TECHNICAL INFORMATION



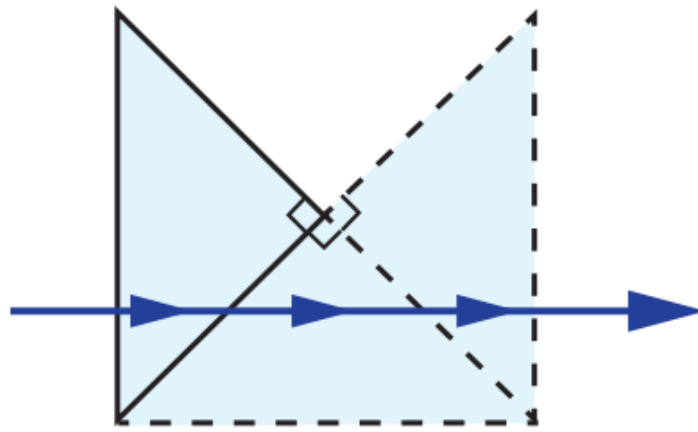
Right Angle Prism Ray Path



Right Angle Prism Ray Path



Right Angle Prism Tunnel Diagram



Right Angle Prism Tunnel Diagram

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](#).
