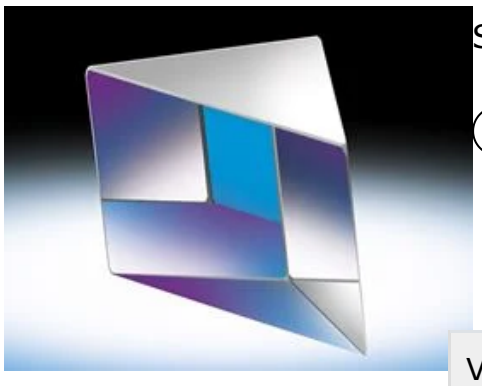
TECHSPEC®

10mm, 1064nm V-Coat, Laser Line Fused Silica Right Angle Prism



Stock #83-330 CONTACT US

- 1 +

C$236.60

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Volume Pricing	
Qty 1-5	C$236.60 each
Qty 6-25	C$189.00 each
Qty 26-49	C$176.40 each
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Product Downloads

STEP:step | Curve:pdf | PDF Drawing:pdf | IGES:igs | Curve (xslx):xlsx | eDrawing:eprt | EO Spec Sheet | Download All

General

Type:	Right Angle Prism

Physical & Mechanical Properties

Dimensional Tolerance (mm):	+0.00/-0.10	**Bevel:**	Protective as needed
Length of Hypotenuse (mm):	14.10	**Length of Legs (mm):**	10.00

Optical Properties

Angle Tolerance (arcsec):	±40	**Coating:**	Laser V-Coat (1064nm)
Design Wavelength DWL (nm):	1064	**Substrate:** ⓘ	Fused Silica (Corning 7980)
Surface Quality:	20-10	**Pyramid Tolerance (arcmin):**	±1
Image Orientation:	Left-Handed	**Coating Specification:**	R_{abs} <0.25% @ 1064nm
Ray Deviation (°):	90	**Damage Threshold, By Design:** ⓘ	15 J/cm^2 @ 1064nm, 20ns, 20Hz
Power (fringes) @ 632.8nm:	1.25	**Irregularity (fringes) @ 632.8nm:**	0.20

Regulatory Compliance

RoHS 2015:	Compliant	**Reach 209:**	Compliant

Certificate of Conformance:	**View**

Need different specs or modifications?

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

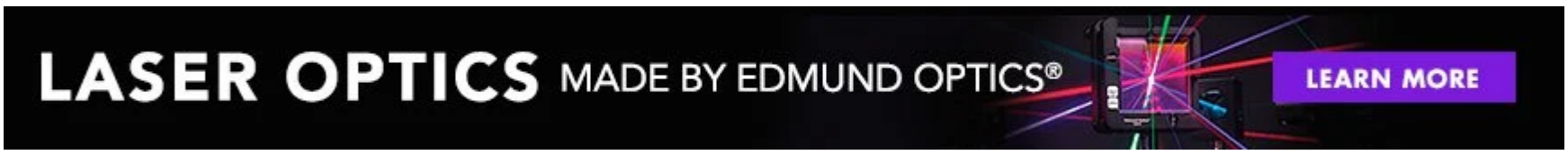
Learn more about our **custom manufacturing capabilities** or submit an inquiry **here.**

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 Fused Silica Right Angle Prisms provide high damage thresholds ranging from 2 - 5J/cm^2 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 Tunnel Diagram

Right Angle Prism Ray Path

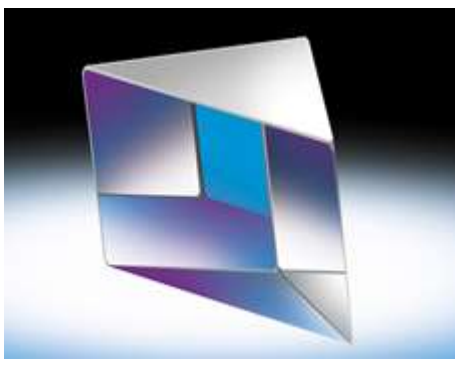
Right Angle Prism Tunnel Diagram

Frequently Purchased Together

#60-375 - 7.75" x 4" Sheets, Industrial Grade Lens Tissue
C$55.30
Qty

#67-982 - 6.0mm Diameter x -6 FL, NIR II Coated, Plano-Concave Lens
C$63.00
Qty

#67-984 - 6mm Diameter x -12 FL, NIR II Coated, Plano-Concave Lens
C$63.00
Qty



#83-331 - 12.5mm, 1064nm V-Coat, Laser Line Fused Silica Right Angle Prism
C$242.20
Qty

Resources

Media Type

- [ ] Application Note
- [ ] FAQ
- [ ] Glossary
- [ ] Scientific Paper
- [ ] Video
- [ ] Published Article

APPLICATION NOTE
Anti-Reflection (AR) Coatings

APPLICATION NOTE
An Introduction to Optical Coatings

APPLICATION NOTE
Introduction to Optical Prisms

APPLICATION NOTE
Prism Tunnel Diagrams

APPLICATION NOTE
Optical Prism Application Examples

? FAQ
What is the main application difference...

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