

**TECHSPEC® 12.5mm, 1064nm V-Coat, Laser Line Fused Silica Right Angle Prism**



Stock #83-331 **17 In Stock**

⊖ 1 ⊕ £138.<sup>40</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	£138.40 each
Qty 6-25	£110.40 each
Qty 26-49	£104.00 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Right Angle Prism **Type:**

**Physical & Mechanical Properties**

+0.00/-0.10 **Dimensional Tolerance (mm):**

Protective as needed **Bevel:**

17.70	<b>Length of Hypotenuse (mm):</b>
12.50	<b>Length of Legs (mm):</b>
<b>Optical Properties</b>	
±40	<b>Angle Tolerance (arcsec):</b>
Laser V-Coat (1064nm)	<b>Coating:</b>
1064	<b>Design Wavelength DWL (nm):</b>
<a href="#">Fused Silica</a> (Coming 7980)	<b>Substrate:</b> <input type="checkbox"/>
20-10	<b>Surface Quality:</b>
±1	<b>Pyramid Tolerance (arcmin):</b>
Left-Handed	<b>Image Orientation:</b>
R <sub>abs</sub> <0.25% @ 1064nm	<b>Coating Specification:</b>
90	<b>Ray Deviation (°):</b>
15 J/cm <sup>2</sup> @ 1064nm, 20ns, 20Hz	<b>Damage Threshold, By Design:</b> <input type="checkbox"/>
1.25	<b>Power (fringes) @ 632.8nm:</b>
0.20	<b>Irregularity (fringes) @ 632.8nm:</b>

<b>Regulatory Compliance</b>	
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">Compliant</a>	<b>Reach 209:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>

## 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<sup>2</sup> 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*