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**TECHSPEC® 20mm Aluminum & UV-VIS, High Tolerance Fused Silica Right Angle Prism**



TECHSPEC High Tolerance UV Fused Silica Right Angle Prisms

Stock #47-804 [CONTACT US](#)

⊖ 1 ⊕ A\$251<sup>20</sup>

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Volume Pricing	
Qty 1-5	A\$251.20 each
Qty 6-25	A\$201.60 each
Qty 26-49	A\$188.40 each
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Product Downloads

**General**

Right Angle Prism **Type:**

**Physical & Mechanical Properties**

+0.0/-0.1 **Dimensional Tolerance (mm):**

Protective as needed **Bevel:**

Length of Hypotenuse (mm):  
28.30

Length of Legs (mm):  
20.00

## Optical Properties

Angle Tolerance (arcsec):  
±40

Coating:  
UV-VIS & Aluminized

Substrate:   
Fused Silica (Corning 7980)

Surface Quality:  
20-10

Pyramid Tolerance (arcmin):  
±1

Image Orientation:  
Left-Handed

Coating Specification:  
Legs:  $R_{abs} \leq 1.0\%$  @ 350 - 450nm,  $R_{avg} \leq 1.5\%$  @ 250 - 700nm  
Hypotenuse:  $R_{avg} > 85\%$  @ 400 - 700nm w/Black Overpaint

Wavelength Range (nm):  
250 - 700

Damage Threshold, By Design:   
Hypotenuse: 0.3 J/cm<sup>2</sup> @ 532 & 1064nm, 10ns  
Legs: 3 J/cm<sup>2</sup> @ 355nm, 10ns; 5 J/cm<sup>2</sup> @ 532nm, 10ns

Power (fringes) @ 632.8nm:  
1.25

Irregularity (fringes) @ 632.8nm:  
0.20

## Regulatory Compliance

RoHS 2015:  
Compliant

Certificate of Conformance:  
View

Reach 235:  
Compliant

## 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

- Ray Deviation of 90°
- Left Handed Image
- ±40 Arcseconds Angle Tolerance
- Additional [Right Angle Prism](#) Options Available

TECHSPEC® High Tolerance Fused Silica Right Angle Prisms, like most right angle prisms, are 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. TECHSPEC® High Tolerance Fused Silica Right Angle Prisms feature low arcsecond angle tolerance and are made from precision UV fused silica for use in a variety of UV, Visible and NIR applications. The prisms are offered in leg lengths from 5 to 25mm.

## Technical Information



