

[See all 12 Products in Family](#)

**TECHSPEC® 12.5mm Aluminum & UV-VIS, N/20 Fused Silica Right Angle Prism**



Stock #39-842 **11 In Stock**

⊖ 1 ⊕ **\$470<sup>00</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1-5	<b>\$470.40</b> each
Qty 6-25	<b>\$376.60</b> each
Qty 26-49	<b>\$352.80</b> each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Right Angle Prism **Type:**

**Physical & Mechanical Properties**

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

Protective as needed **Bevel:**

90 **Clear Aperture (%)**:

17.70 **Length of Hypotenuse (mm)**:

12.50 **Length of Legs (mm)**:

## Optical Properties

±15 **Angle Tolerance (arcsec)**:

UV-Vis & Aluminized **Coating**:

**Fused Silica** (Corning 7980) **Substrate:**

20-10 **Surface Quality**:

±1 **Pyramid Tolerance (arcmin)**:

Left-Handed **Image Orientation**:

**Coating Specification:**  
Legs:  $R_{abs} \leq 1.0\%$  @ 350 - 450nm,  $R_{avg} \leq 1.5\%$  @ 250 - 700nm  
Hypotenuse:  $R_{avg} > 85\%$  @ 400 - 700nm,  $R_{avg} > 90\%$  @ 400 - 2000nm w/Black Overpaint

250 - 700 **Wavelength Range (nm)**:

$\lambda/20$  **Surface Flatness (P-V)**:

**Damage Threshold, By Design:**   
Hypotenuse:  $0.3 \text{ J/cm}^2$  @ 532 & 1064nm, 10ns  
Legs:  $3 \text{ J/cm}^2$  @ 355nm, 10ns;  $5 \text{ J/cm}^2$  @ 532nm, 10ns

## Regulatory Compliance

**Compliant** **RoHS 2015:**

**View** **Certificate of Conformance:**

**Compliant** **Reach 235:**

## 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

- $\lambda/20$  Surface Flatness
- UV Fused Silica Substrate
- Laser Optic Quality

TECHSPEC®  $\lambda/20$  Fused Silica Right Angle Prisms feature precision specifications for the most demanding applications. These prisms are tailored for laser applications with surface flatness of  $\lambda/20$  and surface quality of 20-10. Our TECHSPEC®  $\lambda/20$  Fused Silica Right Angle Prisms feature industry leading  $\pm 15$  arcsecond angular tolerances for guaranteed control of optical path. The UV Fused Silica substrate offers extended range deep into the UV.

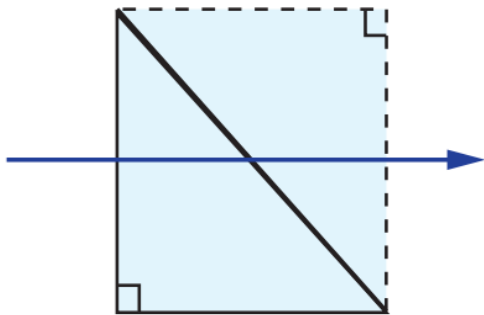
## Technical Information



Right Angle Prism Ray Path



Right Angle Prism Ray Path



Right Angle Prism Tunnel Diagram



Right Angle Prism Tunnel Diagram

