

TECHSPEC[®] 12.5mm Aluminum & UV-VIS, Ultra Precision UV Fused Silica Right Angle Prism



Stock #39-842 11 In Stock

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1

+

S\$470⁴⁰

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Volume Pricing	
Qty 1-5	S\$470.40 each
Qty 6-25	S\$376.60 each
Qty 26-49	S\$352.80 each
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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 J/cm^2 @ 532 & 1064nm, 10ns Legs: 3 J/cm^2 @ 355nm, 10ns; 5 J/cm^2 @ 532nm, 10ns	

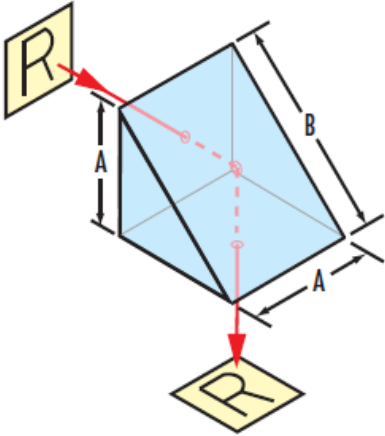
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

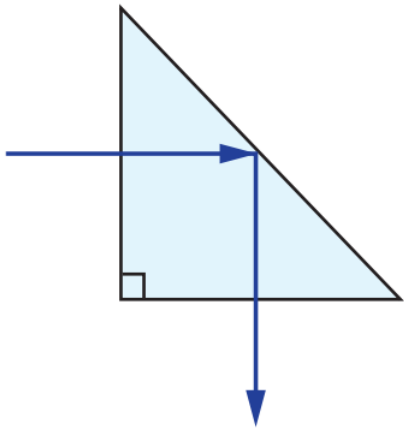
Product Details

- $\lambda/20$ 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 ± 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

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](#).