

TECHSPEC<sup>®</sup> 50mm, Al & AR Coated, Fused Silica, Right Angle Prism



TECHSPEC UV Fused Silica Right Angle Prisms

Stock **#47-799** [CONTACT US](#)

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+

C\$473<sup>20</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$473.20 each                |
| Qty 6-25       | C\$378.00 each                |
| Qty 26-49      | C\$354.90 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:

Right Angle Prism

Physical & Mechanical Properties

Dimensional Tolerance (mm):

±0.10 Legs

Bevel:

Protective as needed

|                                                                                                                                                               |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 70.70                                                                                                                                                         | Length of Hypotenuse (mm):          |
| 50.00                                                                                                                                                         | Length of Legs (mm):                |
| Optical Properties                                                                                                                                            |                                     |
| MgF <sub>2</sub> & Aluminized                                                                                                                                 | Coating:                            |
| Fused Silica (Corning 7980)                                                                                                                                   | Substrate: <input type="checkbox"/> |
| 60-40                                                                                                                                                         | Surface Quality:                    |
| ±5                                                                                                                                                            | Angle Tolerance (arcmin):           |
| ±5                                                                                                                                                            | Pyramid Tolerance (arcmin):         |
| Left-Handed                                                                                                                                                   | Image Orientation:                  |
| Coating Specification:<br>Hypotenuse: R <sub>avg</sub> >85% @ 400 - 700nm<br>Legs: R <sub>avg</sub> ≤1.75% @ 400 - 700 nm                                     |                                     |
| 90                                                                                                                                                            | Ray Deviation (°):                  |
| 400 - 700                                                                                                                                                     | Wavelength Range (nm):              |
| Damage Threshold, By Design: <input type="checkbox"/><br>Hypotenuse: 0.3 J/cm <sup>2</sup> @ 532nm & 1064nm, 10ns<br>Legs: 10 J/cm <sup>2</sup> @ 532nm, 10ns |                                     |
| 1.25                                                                                                                                                          | Power (fringes) @ 632.8nm:          |
| 0.25                                                                                                                                                          | Irregularity (fringes) @ 632.8nm:   |

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

## 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

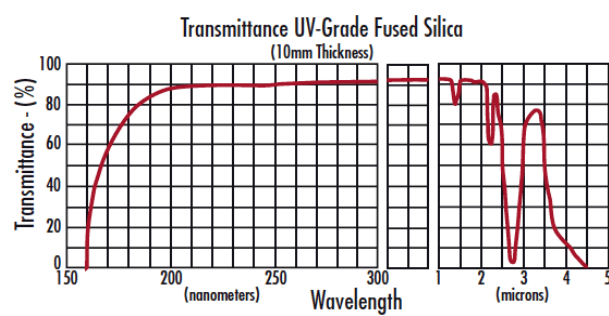
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

- Ideal for Broadband Applications
- Available with Aluminized and AR Coated Faces
- Sizes Ranging from 5 - 50mm
- Additional [Right Angle Prism](#) Options Available

TECHSPEC® Fused Silica Right Angle Prisms are ideal for broadband applications. 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. TECHSPEC® Fused Silica Right Angle Prisms are made from UV fused silica which features low thermal expansion and excellent transmission throughout the UV, visible, and NIR spectral ranges. The prisms are available in lengths ranging from 5 to 50mm.

## Technical Information



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