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TECHSPEC<sup>®</sup> 50mm Dia 0.50 NA, VIS Coated, UV Fused Silica Aspheric Lens



TECHSPEC UV Fused Silica Aspheric Lenses



Stock #67-277 3 In Stock

☐ [Other Coating Options](#)

-

1

+

£759<sup>20</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £759.20 each                  |
| Qty 6-10       | £684.00 each                  |
| Qty 11-25      | £636.00 each                  |
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Aspheric Lens

Type:

Physical & Mechanical Properties

|                      |                           |
|----------------------|---------------------------|
| 50.00 +0.0/-0.1      | Diameter (mm):            |
| ≤5                   | Centering (arcmin):       |
| 45                   | Clear Aperture CA (mm):   |
| 3.49                 | Edge Thickness ET (mm):   |
| 19.50 ±0.1           | Center Thickness CT (mm): |
| Protective as needed | Bevel:                    |
| Plano                | Shape of Back Surface:    |

Optical Properties

|                                             |                                      |
|---------------------------------------------|--------------------------------------|
| 50.00 @ 587.6nm                             | Effective Focal Length EFL (mm):     |
| 0.50                                        | Numerical Aperture NA:               |
| 36.63                                       | Back Focal Length BFL (mm):          |
| <a href="#">Fused Silica</a> (Corning 7980) | Substrate: <input type="checkbox"/>  |
| 587.6                                       | Aspheric Design Wavelength (nm):     |
| 1.2λ                                        | Asphere Figure Error, RMS @ 632.8nm: |
| VIS (425-675nm)                             | Coating:                             |
| R <sub>avg</sub> ≤1.5% @ 425 - 675nm        | Coating Specification:               |
| 60-40                                       | Surface Quality:                     |
| 1.00                                        | f/#:                                 |
| 425 - 675                                   | Wavelength Range (nm):               |
| Infinite                                    | Conjugate Distance:                  |
| 20.00                                       | Power (diopters):                    |

Regulatory Compliance

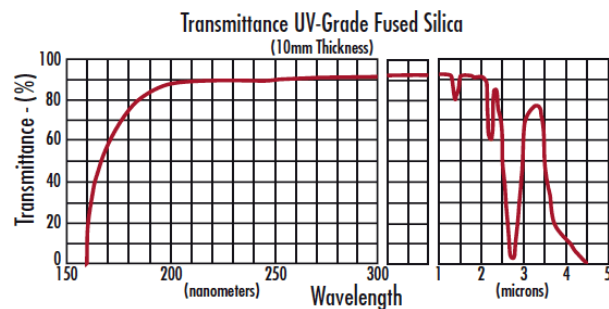
|                           |                             |
|---------------------------|-----------------------------|
| <a href="#">Compliant</a> | RoHS 2015:                  |
| <a href="#">View</a>      | Certificate of Conformance: |
| <a href="#">Compliant</a> | Reach 235:                  |

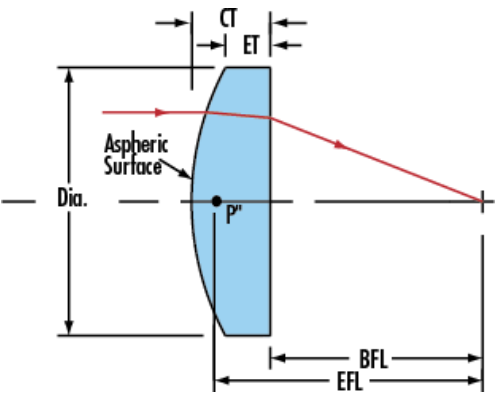
## Product Details

- Low Coefficient of Thermal Expansion
- Precision and High Precision Options
- High Numerical Apertures to Maximize Throughput

TECHSPEC® UV Fused Silica Aspheric Lenses offer the benefits of an aspheric element combined with the manufacturing precision of state-of-the-art grinding and polishing equipment. These fused silica optics can be easily designed and integrated into complex optical systems with the available prescription data. Featuring low *f*/#'s, which allow for a larger aperture and thus more light gathering and focusing performance, these fused silica lenses are computer-optimized to eliminate spherical and minimize higher order aberrations. TECHSPEC® UV Fused Silica Aspheric Lenses offer a low coefficient of thermal expansion, making them ideal for applications in metrology, beam-focusing or collimating, and OEM integration. These lenses are available in a variety of coating options and are offered in sizes ranging from 10-50mm.

## Technical Information





## 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](#).

## Compatible Mounts