

TECHSPEC<sup>®</sup> 50mm Dia 0.48 NA, UV Coated, UV Fused Silica Aspheric Lens



TECHSPEC UV Fused Silica Aspheric Lenses



Stock **#21-940** **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                  |
| Need More?     | <a href="#">Request Quote</a> |

 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Aspheric Lens

Physical & Mechanical Properties

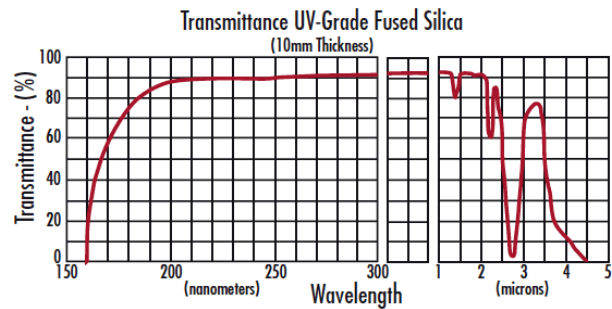
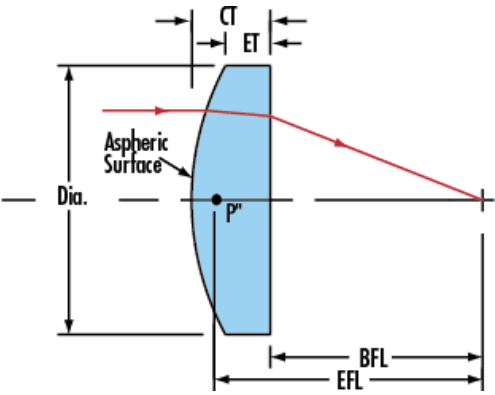
|                                      |                                      |
|--------------------------------------|--------------------------------------|
| 50.00 +0/-0.025                      | Diameter (mm):                       |
| <1                                   | Centering (arcmin):                  |
| 45                                   | Clear Aperture CA (mm):              |
| 4.01                                 | Edge Thickness ET (mm):              |
| 19.20 ±0.1                           | Center Thickness CT (mm):            |
| Protective as needed                 | Bevel:                               |
| Plano                                | Shape of Back Surface:               |
| Optical Properties                   |                                      |
| 50.00 @ 355nm                        | Effective Focal Length EFL (mm):     |
| 0.48                                 | Numerical Aperture NA:               |
| 37.00 @ 355nm                        | Back Focal Length BFL (mm):          |
| Fused Silica (Corning 7980)          | Substrate: □                         |
| 355                                  | Aspheric Design Wavelength (nm):     |
| 0.4λ                                 | Asphere Figure Error, RMS @ 632.8nm: |
| UV (250-425nm)                       | Coating:                             |
| R <sub>avg</sub> ≤1.5% @ 250 - 425nm | Coating Specification:               |
| 40-20                                | Surface Quality:                     |
| 1                                    | f/#:                                 |
| 250 - 425                            | Wavelength Range (nm):               |
| Infinite                             | Conjugate Distance:                  |
| 20.00                                | Power (diopters):                    |
| Regulatory Compliance                |                                      |
| Compliant                            | RoHS 2015:                           |
| View                                 | Certificate of Conformance:          |
| Compliant                            | 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



UV FS Transmission Curve

## 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