

**TECHSPEC® 50mm Dia 0.42 NA, NIR Coated, UV Fused Silica Aspheric Lens**



TECHSPEC UV Fused Silica Aspheric Lenses



Stock **#67-283** **5 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ £744<sup>11</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	£744.18 each
Qty 6-25	£595.34 each
Qty 26-49	£555.94 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**SPECIFICATIONS**

## General

Aspheric Lens **Type:**

## Physical & Mechanical Properties

50.00 +0.0/-0.1 **Diameter (mm):**

≤5 **Centering (arcmin):**

45 **Clear Aperture CA (mm):**

4.42 **Edge Thickness ET (mm):**

17.00 ±0.1 **Center Thickness CT (mm):**

Protective as needed **Bevel:**

Plano **Shape of Back Surface:**

## Optical Properties

60.00 @ 587.6nm **Effective Focal Length EFL (mm):**

0.42 **Numerical Aperture NA:**

48.34 **Back Focal Length BFL (mm):**

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

587.6 **Aspheric Design Wavelength (nm):**

1.2λ **Asphere Figure Error, RMS @ 632.8nm:**

NIR (600-1050nm) **Coating:**

$R_{avg} \leq 1.5\%$  @ 600 - 1050nm **Coating Specification:**

60-40 **Surface Quality:**

1.2 **f#:**

600 - 1050 **Wavelength Range (nm):**

Infinite **Conjugate Distance:**

16.67 **Power (diopters):**

## Regulatory Compliance

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

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

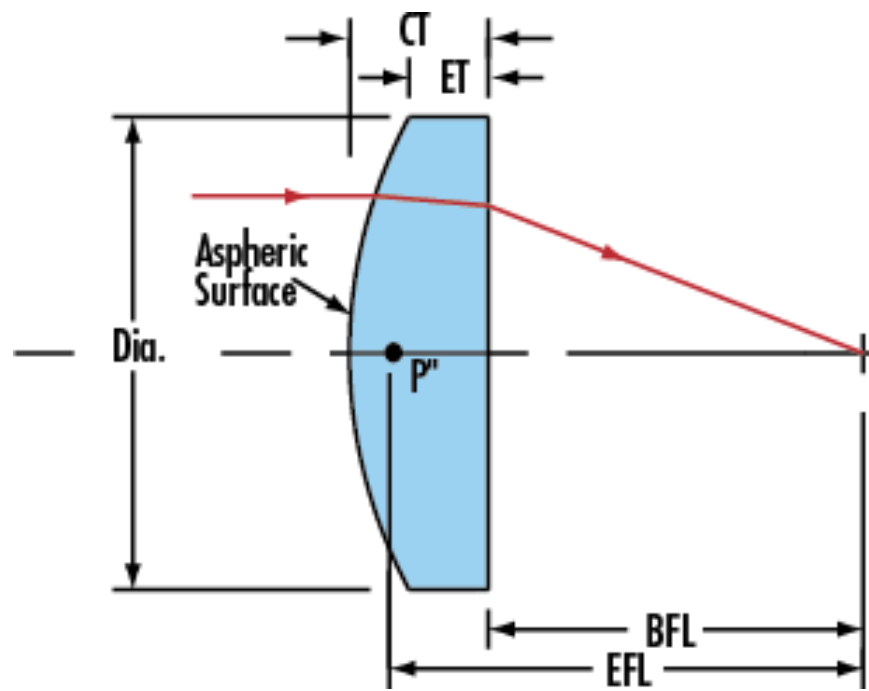
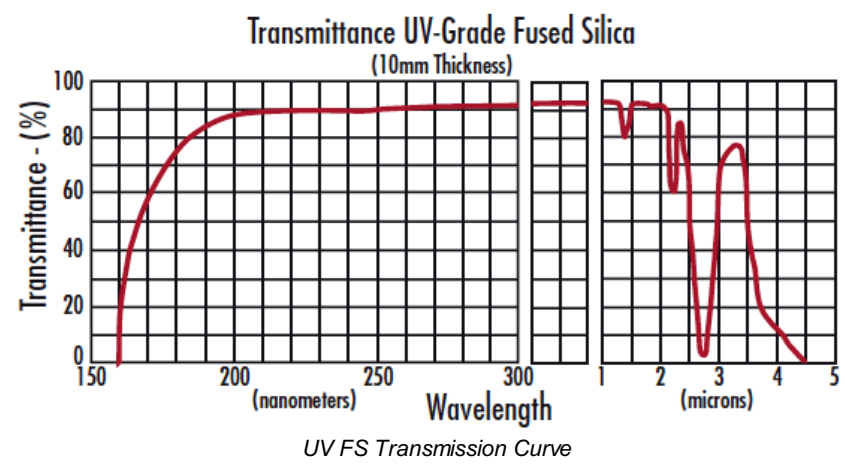
**Compliant** **Reach 235:**

## 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



## 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