TECHSPEC®

# 9mm Dia., 0.33 Numerical Aperture, 600-1050nm Coated, Precision Aspheric Lens

TECHSPEC® Precision Aspheric Lenses

Stock #70-073 5 In Stock Other Coating

Options

- 1 +

S$558.60

ADD TO CART

| Volume Pricing | |
|---|---|
| Qty 1-5 | S$558.60 each |
| Qty 6-10 | S$502.60 each |
| Qty 11-25 | S$457.80 each |
| Need More? | Request Quote |

Product Downloads

Curve:pdf | Curve (xslx):xlsx | Zemax:zmx | EO Spec Sheet | Download All

## General

| | |
|---|---|
| **Type:** | Aspheric Lens |

## Physical & Mechanical Properties

| | | | |
|---|---|---|---|
| **Diameter (mm):** | 9.00 +0.00/-0.025 | **Centering (arcmin):** | <3 |
| **Clear Aperture CA (mm):** | 6.75 | **Edge Thickness ET (mm):** | 2.86 |
| **Center Thickness CT (mm):** | 4.00 ±0.10 | **Bevel:** | Protective as needed |
| **Shape of Back Surface:** | Plano | | |

## Optical Properties

| | | | |
|---|---|---|---|
| **Effective Focal Length EFL (mm):** | 11.25 @ 587.6nm | **Numerical Aperture NA:** | 0.33 |
| **Back Focal Length BFL (mm):** | 9.03 | **Substrate:** ⓘ | N-SF6 |
| **Aspheric Design Wavelength (nm):** | 587.6 | **Asphere Figure Error, RMS @ 632.8nm:** | 0.4λ |
| **Coating:** | NIR+ (600-1050nm) | **Coating Specification:** | $R_{avg}$ <0.5% @ 600 - 1050nm @ ±30° AOI<br>$R_{abs}$ <1.5% @ 600 - 1050nm @ ±30° AOI |

| | | | |
|---|---|---|---|
| **Surface Quality:** | 40-20 | **f/#:** | 1.50 |
| **Wavelength Range (nm):** | 600 - 1050 | **Conjugate Distance:** | Infinite |
| **Power (diopters):** | 88.89 | | |

## Regulatory Compliance

| | | | |
|---|---|---|---|
| **RoHS 2015:** | **Compliant** | **Certificate of Conformance:** | **View** |
| **Reach 250:** | **Compliant** | | |

# Product Details

- Improved Versions of Our Aspheric Lenses
- Precision Grade Aspheric Surfaces
- High Numerical Apertures to Maximize Throughput

TECHSPEC® Precision Aspheric Lenses are CNC polished aspheric lenses that feature a 0.4λ RMS aspheric figure error. The precision aspheric figure error makes these lenses ideal for applications that require spherical aberration correction, including imaging and laser focusing applications. These aspheric lenses can also be used to replace multiple spherical elements in optical assemblies to reduce weight and cost. TECHSPEC Precision Aspheric Lenses are available with diameters from 6 to 50mm and high numerical apertures to maximize light throughput.

# Related Products

Glass Polished

Aspheric Lenses


Optical Lens and Filter Mounts

UV Fused Silica Aspheric Lenses

# Resources

**Media Type**

- [ ] Application Note
- [ ] Scientific Paper
- [ ] Trending in Optics
- [ ] Video
- [ ] Published Article
- [ ] FAQ
- [ ] Glossary

APPLICATION NOTE
Anti-Reflection (AR) Coatings

APPLICATION NOTE
An Introduction to Optical Coatings

CASE STUDIES
Laser Optics for Eye Surgery

APPLICATION NOTE
Lens Geometry Performance Comparison

APPLICATION NOTE
All About Aspheric Lenses

WEBINARS
Design Considerations for Custom Aspheres

View More

;