TECHSPEC®

12.5mm Dia., 0.50 Numerical Aperture, Uncoated, Inked, High Precision Aspheric Lens

TECHSPEC® Precision Aspheric Lenses

Stock #37-417-INK CONTACT US Other Coating Options

- 1 +

£223.20

ADD TO CART

Volume Pricing	
Qty 1-5	£223.20 each
Qty 6-10	£200.80 each
Qty 11-25	£183.20 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

STEP:step | PDF Drawing:pdf | IGES:igs | Zemax:zar | Zemax:zmx | eDrawing:eprt | Code V:seq | EO Spec Sheet

General

Type:	Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):	12.50 ±0.025	**Centering (arcmin):**	<3
Clear Aperture CA (mm):	11.25	**Edge Thickness ET (mm):**	5.50
Center Thickness CT (mm):	7.50 ±0.10	**Bevel:**	Protective as needed
Shape of Back Surface:	Plano		

Optical Properties

Effective Focal Length EFL (mm):	12.50 @ 587.6nm	**Numerical Aperture NA:**	0.50
Back Focal Length BFL (mm):	8.34	**Substrate:** ⓘ	N-SF6
Asphere Figure Error, RMS @ 632.8nm:	0.4λ	**Coating:**	Uncoated
Surface Quality:	40-20	**f/#:**	1.00

Abbe Number (v_d):	25.36	**Index of Refraction (n_d):**	1.805
Wavelength Range (nm):	390 - 2500	**Conjugate Distance:**	Infinite

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):	9.0		

Regulatory Compliance

Certificate of Conformance:	View		

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

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	12.5/12.7mm Optic Dia., SM05 Thin Mount, M4	Fixed		#13-789	£15.60 Request Quote	10 In Stock 1
MORE+ 	12.5/12.7mm Optic Dia., SM05 Thin Mount, 8-32	Fixed		#13-790	£15.60 Request Quote	17 In Stock 1
MORE+ 	12.5/12.7mm Optic Dia., L-Slot Direct Mount	Fixed		#36-416	£47.20 Request Quote	17 In Stock 1
MORE+ 	12.5/12.7mm Optic Dia., Side Flange Direct Mount	Fixed		#36-418	£47.20 Request Quote	10 In Stock 1
MORE+ 	12.5mm Diameter, C-Mount Thick Optic Mount	Fixed		#54-623	£47.60 Request Quote	17 In Stock 1

	Title	Type	Compare	Stock Number	Price ☐	Buy
MORE+ 	12.5/12.7mm Diameter, T-Mount Thick Optic Mount	Fixed		#52-954	£57.60 Request Quote	4 In Stock 1
MORE+ 	12.5mm Inner Pair Optic Mounts	Fixed		#11-406	£64.40 Request Quote	2 In Stock 1
MORE+ 	12.5/12.7mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-417	£77.20 Request Quote	20+ In Stock 1
MORE+ 	12.5/12.7mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-955	£208.80 Request Quote	5 In Stock 1
MORE+ 	12.5/12.7mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-958	£343.20 Request Quote	5 In Stock 1

Check out our full selection of mounts **here**.

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

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