

TECHSPEC®

20mm Dia., 0.67 Numerical Aperture, 900-1700nm Coated, Precision Aspheric Lens


 Stock #23-013 **11 In Stock** [Other Coating Options](#)

- 1 +

 £303^{.20}
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TECHSPEC® Precision Aspheric Lenses

Volume Pricing	
Qty 1-5	£303.20 each
Qty 6-10	£272.80 each
Qty 11-25	£248.80 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
Curve (xlsx):xlsx	Zemax:zar
Zemax:zmx	eDrawing:eprt
Code V:seq	EO Spec Sheet
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General

Type: Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):	20.00 +0.00/-0.025	Centering (arcmin):	<3
Clear Aperture CA (mm):	18.00	Edge Thickness ET (mm):	7.97
Center Thickness CT (mm):	12.42 ±0.10	Bevel:	Protective as needed
Shape of Back Surface:	Plano		

Optical Properties

Effective Focal Length EFL (mm):	15.00 @ 587.6nm	Numerical Aperture NA:	0.67
Back Focal Length BFL (mm):	8.12	Substrate: N-SF6	
Asphere Figure Error, RMS @ 632.8nm:	0.4λ	Coating:	SWIR+ (900-1700nm)
Coating Specification:	R _{avg} <0.5% @ 900 - 1700nm @ ±30° AOI R _{spc} <1.5% @	Surface Quality:	40-20

900 - 1700nm
@ ±30° AOI

f/#: 0.75

Wavelength Range (nm): 900 - 1700

Conjugate Distance: Infinite

Power (diopters): 66.67

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

Frequently Purchased Together



#33-263 - 12.7mm Dia. f/0.5
NIR Coated, Molded Acrylic
Aspheric Lens
£59.20

Qty



#33-264 - 12.7mm Dia. f/0.75
NIR Coated, Molded Acrylic
Aspheric Lens
£59.20

Qty



#33-963 - 15mm Dia 0.75 NA,
NIR Coated, UV Fused Silica
Aspheric Lens
£479.20

Qty



#45-609 - 50mm Dia. Protected
Gold, λ/4 Mirror
£156.00

Qty

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

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