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TECHSPEC® 25mm Dia., 0.50 NA, Uncoated, Calibration Grade Aspheric Lens



Calibration Grade Aspheric Lenses

Stock #69-142 **6 In Stock**

⊖ 1 ⊕ £412.⁰⁰

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Volume Pricing	
Qty 1-5	£412.80 each
Qty 6-25	£372.00 each
Qty 26-49	£330.40 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Aspheric Lens **Type:**

Physical & Mechanical Properties

25.00 +0.0/-0.1 **Diameter (mm):**

Centering (arcmin):

≤1	
22.00	Clear Aperture CA (mm):
1.74	Edge Thickness ET (mm):
7.50	Center Thickness CT (mm):
Protective as needed	Bevel:
Plano	Shape of Back Surface:
Optical Properties	
25.00 @ 587.6nm	Effective Focal Length EFL (mm):
0.50	Numerical Aperture NA:
20.28	Back Focal Length BFL (mm):
L-BAL35	Substrate: <input type="checkbox"/>
587.6	Aspheric Design Wavelength (nm):
Uncoated	Coating:
20-10	Surface Quality:
1.00	f#:
61.15	Abbe Number (v _d):
1.589	Index of Refraction (n _d):
330 - 2400	Wavelength Range (nm):
Infinite	Conjugate Distance:
587.6	Focal Length Specification Wavelength (nm):
0.4λ RMS and 2λ PV	Asphere Figure Error, @ 632.8nm:
40.00	Power (diopters):
Material Properties	
6.6	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
Regulatory Compliance	
View	Certificate of Conformance:

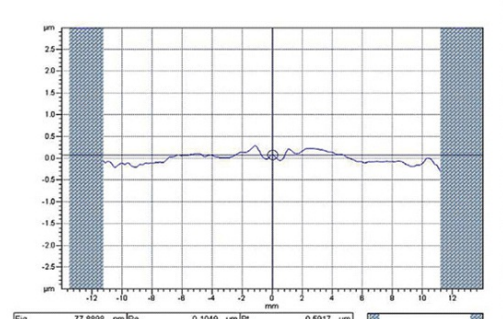
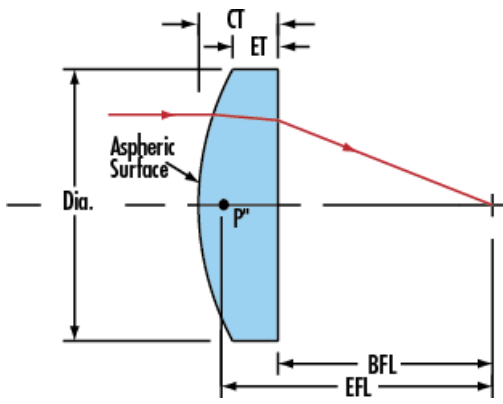
Product Details

- Complete Metrology Data Provided
- Precision Grade Aspheric Surface
- 0.66 and 0.50 NA Lenses

Our TECHSPEC® Calibration Grade Aspheric Lenses offer the ultimate in performance and precision available from an off-the-shelf polished aspheric lenses. Featuring improved aspheric surface figure, surface quality, and centering specification over our [TECHSPEC® Aspheric lenses](#), these optical components are ideal for integration into R&D and OEM applications alike. With high numerical apertures, the lenses are ideal for improving the efficiency of low light level detection systems, or for applications requiring a compact optical path.

Each aspheric lens is serialized and provided with a complete metrology data package. The test data package includes a surface profile performed on our Taylor Hobson Talysurf Profilometer, an interferogram of the spherical surface, and tested values for diameter, center thickness, and centration. For custom designed calibration grade aspheric lenses, coating requirements, or volume pricing, please contact our [Sales Department](#).

Technical Information



Pq	77.8898	nm	Pv	0.1069	µm	Pt	0.5917	µm
Qrms	0.003	µm	Qmax	0.066	µm	Qmin	-0.014	µm
Zq	-1.1128	mm	Zv	11.2133	mm	Zt	12.9558	mm
RMS	0.1228	µm						

Data Item Setup	
Wave Number	11.48000000
Wave Constant	-0.75200
Shape	Circle
Coefficients	
A01	0.00000000
A02	0.00000000
A03	0.00000000
A04	-2.00000000
A05	0.00000000
A06	0.00000000
A07	0.00000000
A08	-1.41800000
A09	0.00000000
A10	0.00000000
A11	0.00000000
A12	0.00000000
A13	0.00000000
A14	0.00000000
A15	0.00000000
A16	0.00000000
A17	0.00000000
A18	0.00000000
A19	0.00000000
A20	0.00000000
Mirror Setup	
Clear Aperture	11.0000
Lambda 5 Filter Setup	
On Off	

Compatible Mounts