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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 ⊕ **S\$722⁰⁰**

ADD TO CART

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | S\$722.40 each |
| Qty 6-25 | S\$651.00 each |
| Qty 26-49 | S\$578.20 each |
| Need More? | Request Quote |

Product Downloads

General

Aspheric Lens

Type:

Physical & Mechanical Properties

25.00 +0.0/-0.1

Diameter (mm):

≤1

Centering (arcmin):

| | |
|----------------------|---------------------------|
| 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 ($10^{-6}/^{\circ}\text{C}$): |
|-----|--|

Regulatory Compliance

| | |
|----------------------|-----------------------------|
| View | Certificate of Conformance: |
|----------------------|-----------------------------|

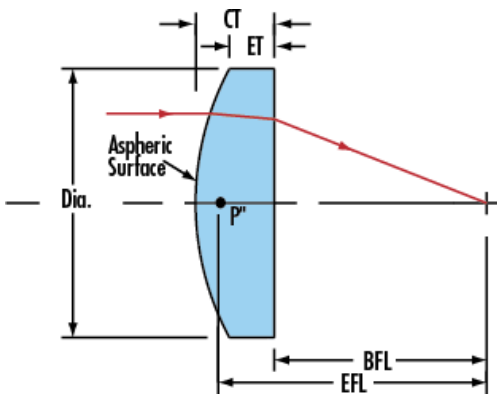
Product Details

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

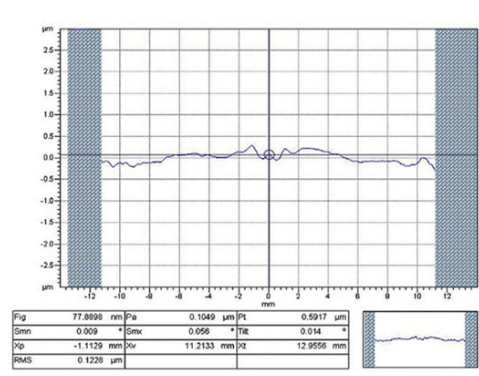
Our TECHSPEC® Calibration Grade Aspheric Lenses offer the ultimate in performance and precision available from an off-the-shelf polished aspheric lenses. Featuring improved aspheric surface figure, surface quality, and centering specification over our [TECHSPEC® Aspheric lenses](#), these optical components 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



Taylor Hobson
OPTICAL



| Circle Form Settings | |
|------------------------|--------------|
| Base Radius | 11.000000mm |
| Circle Constant | -0.750000 |
| Circle | Circle |
| Circle Name | |
| A01 | 0.000000000 |
| A02 | 0.000000000 |
| A03 | 0.000000000 |
| A04 | -0.000000000 |
| A05 | 0.000000000 |
| A06 | -0.000000000 |
| A07 | 0.000000000 |
| A08 | -1.410000000 |
| A09 | 0.000000000 |
| A10 | 0.000000000 |
| A11 | 0.000000000 |
| A12 | 0.000000000 |
| A13 | 0.000000000 |
| A14 | 0.000000000 |
| A15 | 0.000000000 |
| A16 | 0.000000000 |
| A17 | 0.000000000 |
| A18 | 0.000000000 |
| A19 | 0.000000000 |
| A20 | 0.000000000 |
| Manual Input | |
| Clear Aperture | 21.000mm |
| Circle 0 Form Settings | |
| Use Off | |

Compatible Mounts