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TECHSPEC® 25mm Dia. x 100mm FL, 1064nm V-Coat, Hyperbolic Aspheric Lens



Hyperbolic Aspheric Lenses

Stock **#89-442** **3 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ **A\$436⁰⁰**

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Volume Pricing	
Qty 1-5	A\$436.80 each
Qty 6-25	A\$380.80 each
Qty 26-49	A\$344.00 each
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Product Downloads

General

Aspheric Lens **Type:**

Physical & Mechanical Properties

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

Centering (arcmin):

≤5

23.00 **Clear Aperture CA (mm):**

2.54 **Edge Thickness ET (mm):**

4.05 ±0.1 **Center Thickness CT (mm):**

Protective as needed **Bevel:**

Convex **Shape of Back Surface:**

Optical Properties

100.00 @ 1064nm **Effective Focal Length EFL (mm):**

0.13 **Numerical Aperture NA:**

100.00 **Back Focal Length BFL (mm):**

[N-BK7](#) **Substrate:**

1064 **Aspheric Design Wavelength (nm):**

Laser V-Coat (1064nm) **Coating:**

$R_{\text{abs}} < 0.25\%$ @ 1064nm **Coating Specification:**

40-20 **Surface Quality:**

4.00 **f#:**

64.17 **Abbe Number (v_d):**

1064 **Design Wavelength DWL (nm):**

1.516 **Index of Refraction (n_d):**

50.66 **Radius R_2 (mm):**

Infinite **Conjugate Distance:**

1064.00 **Focal Length Specification Wavelength (nm):**

1.6λ RMS and 6λ PV **Asphere Figure Error, @ 632.8nm:**

10.00 **Power (diopters):**

Material Properties

7.1 **Coefficient of Thermal Expansion CTE ($10^{-6}/^{\circ}\text{C}$):**

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 235:**

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

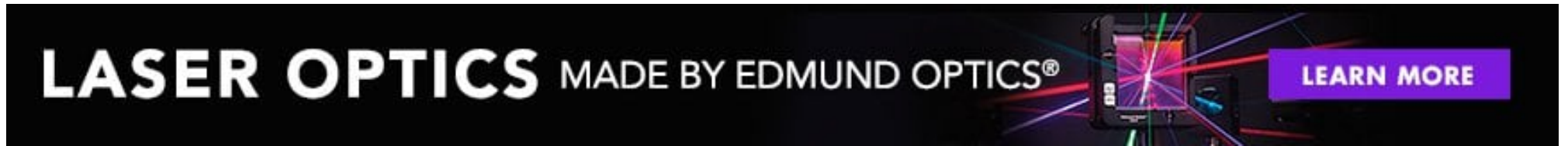
Product Details

Unlike traditional focusing lenses, these lenses should be used with the plano side facing the light source.

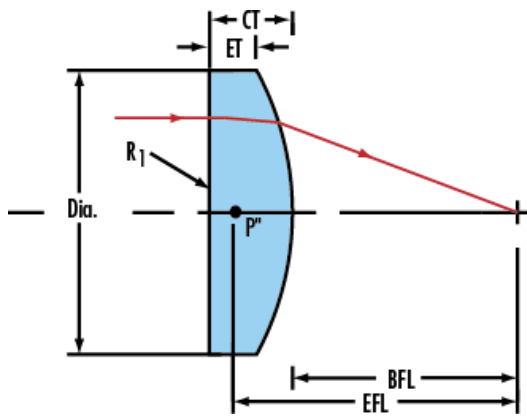
- Designed and Coated for Nd:YAG Laser Wavelengths
- Aspheric Figure Error of 1.6λ RMS and 6λ PV
- Modified [TECHSPEC® PCX Lenses](#)

TECHSPEC® Hyperbolic Aspheric Lenses are [TECHSPEC® PCX Lenses](#) that have been modified to include a mild aspheric surface to provide superior performance at specified wavelengths. Unlike the preexisting spherical lenses, TECHSPEC Hyperbolic Aspheric Lenses produce diffraction-limited spot sizes at the design wavelength, which is ideal for focusing or collimating applications. Any standard lens from Edmund Optics can be modified similarly to TECHSPEC Hyperbolic Aspheric Lenses to create your ideal surface and offer a low-cost boost to performance and to provide the best solution for specific application needs.

Note: Unlike traditional focusing lenses, these lenses should be used with the plano side facing the light source.



Technical Information



Compatible Mounts