

[See all 12 Products in Family](#)

TECHSPEC® 25mm Dia. x 50mm EFL, 1064nm V-Coat, Precision Laser Aspheric Lens



Stock **#23-861** **9 In Stock**

⊖ 1 ⊕ £554.⁴⁰

ADD TO CART

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | £554.40 each |
| Qty 6-25 | £471.20 each |
| Qty 26-49 | £415.20 each |
| Need More? | Request Quote |

! Prices shown are exclusive of VAT/local taxes

Product Downloads

Physical & Mechanical Properties

25.00 +0.000 / -0.025 **Diameter (mm):**

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

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

Center Thickness CT (mm):

7.20 +0.000 / -0.10

Protective as needed **Bevel:**

Plano **Shape of Back Surface:**

Optical Properties

50.00 @ 355nm **Effective Focal Length EFL (mm):**

0.25 **Numerical Aperture NA:**

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

[Fused Silica](#) **Substrate:**

$\lambda/2$ RMS and 2.5λ PV **Asphere Figure Error, RMS @ 632.8nm:**

1064 V-Coat **Coating:**

$R_{abs} < 0.25\%$ @ 1064nm @ 0° AOI **Coating Specification:**

20-10 **Surface Quality:**

2 **f#:**

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

Infinite **Conjugate Distance:**

15 J/cm^2 @ 1064nm, 20ns, 20Hz **Damage Threshold, By Design:**

$0.35\mu\text{m/mm}$ per 1mm Window **Slope Error Aspheric Side:**

<2.5 **Beam Deviation @ 587.6nm (arcmin):**

20.00 **Power (diopters):**

Regulatory Compliance

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

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

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

Product Details

- Diffraction Limited at Designed Nd:YAG Laser Wavelengths
- Laser Damage Designed Coatings on UV Fused Silica Substrates
- Specified Slope Error to Guarantee Low Mid-Spatial Frequency Errors
- [High Precision Laser Grade Aspheric Lenses](#) are also Available

TECHSPEC® Precision Laser Aspheric Lenses are designed to maximize performance in high power laser applications. Featuring diffraction limited performance at their designed wavelengths these aspheric lenses are available with high laser damage threshold coatings optimized at the most common Nd:YAG laser wavelengths. With a $\lambda/2$ aspheric surface figure and $0.35\mu\text{m/mm}$ slope error, TECHSPEC® Precision Laser Aspheric Lenses minimize the mid-spatial frequency (MSF) errors and are ideal for integration into demanding laser processing, cutting, and additive manufacturing applications. Featuring UV fused silica substrates, these aspheres are highly durable and resistant to thermal expansion.