

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



Sapphire Aspheric Lenses

Stock **#27-266** **4 In Stock**

⊖ 1 ⊕ MRP ₹2,51,216

📌 Price inclusive of all taxes

ADD TO CART

Volume Pricing	
Qty 1-5	₹2,51,216 each
Qty 6-10	₹2,13,887 each
Qty 11+	₹2,00,771 each
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Product Downloads

Physical & Mechanical Properties

25.00 +0/-0.1 **Diameter (mm):**

3 **Centering (arcmin):**

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

Center Thickness CT (mm):

3.10 ±0.10

Bevel:

0.5 x 45°

Surface Roughness (□):

40

Poisson's Ratio:

0.27

Young's Modulus (GPa):

435

Optical Properties

Effective Focal Length EFL (mm):

100.00

Numerical Aperture NA:

0.13

Back Focal Length BFL (mm):

98.23

Substrate: □

Sapphire (Al₂O₃)

Coating:

1064nm V-Coat

Coating Specification:

R_{abs} < 0.25% @ 1064nm @ 0° AOI

Surface Quality:

40-20

f/#:

4

Design Wavelength DWL (nm):

1064

Index of Refraction (n_d):

1.77

Irregularity (P-V) @ 632.8nm:

0.5λ

Coating Aperture (mm):

22.5

Power (P-V) @ 632.8nm:

1λ

Material Properties

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):

8.8

Density (g/cm³):

3.97

Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

[View](#)

Reach 235:

Compliant

Country of Origin:

United States

Imported By:

Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
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Product Details

- Durable Sapphire Substrates Ideal For Material Processing and Advanced Manufacturing
- Uncoated and 1064nm Laser Line V-Coated Versions Available
- Diffraction Limited Performance at 1064nm

Sapphire Aspheric Lenses are designed for precision performance in high power applications. Utilizing durable sapphire substrates, these lenses decrease contamination effects on laser performance and feature better thermal conductivity, lower thermally induced focal shift, and faster induced focal shift rise time than fused silica. Designed with material processing and advanced manufacturing in mind, their aspheric surfaces provide diffraction limited performance at 1064nm. Sapphire Aspheric lenses are available uncoated, with a standard laser v-coat, or with custom coatings [available](#) upon request.

Note: Exercise caution when using Sapphire Aspheric Lenses in ultrafast laser applications as sapphire can cause non-linear effects.