

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



Sapphire Aspheric Lenses

Stock **#27-222** **4 In Stock**

⊖ 1 ⊕ **A\$4,304⁰⁰**

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Volume Pricing	
Qty 1-5	A\$4,304.00 each
Qty 6-10	A\$3,664.00 each
Qty 11+	A\$3,440.00 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):
4.10 ±0.10	Center Thickness CT (mm):

0.5 x 45°	Bevel:
40	Surface Roughness (□):
0.27	Poisson's Ratio:
435	Young's Modulus (GPa):

Optical Properties

50.00	Effective Focal Length EFL (mm):
0.25	Numerical Aperture NA:
47.66	Back Focal Length BFL (mm):
Sapphire (Al ₂ O ₃)	Substrate: □
1064nm V-Coat	Coating:
R _{abs} < 0.25% @ 1064nm @ 0° AOI	Coating Specification:
40-20	Surface Quality:
2	f/#:
0.5λ	Irregularity (P-V) @ 632.8nm:
22.5	Coating Aperture (mm):
1λ	Power (P-V) @ 632.8nm:

Material Properties

3.97	Density (g/cm³):
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Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

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.