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TECHSPEC® 15mm Dia 0.50 NA, 1064nm V-Coat, Aspheric Lens

TECHSPEC® Laser Line Coated Aspheric Lenses

Stock **#33-018** **5 In Stock**

Other Coating Options

- 1 + €557.00

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Volume Pricing	
Qty 1-5	**€557,00** each
Qty 6-25	**€448,00** each
Qty 26-49	**€420,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):

15.00 +0.0/-0.1

Centering (arcmin):
≤5

Clear Aperture CA (mm):
13.5

Edge Thickness ET (mm):
2.43

Center Thickness CT (mm):
7.30 ±0.1

Bevel:
Protective as needed

Shape of Back Surface:
Plano

Optical Properties

Effective Focal Length EFL (mm):
15.00 @ 587.6nm

Numerical Aperture NA:
0.50

Back Focal Length BFL (mm):
10.03

Substrate:
Fused Silica (Corning 7980)

Aspheric Design Wavelength (nm):
1064

Asphere Figure Error, RMS @ 632.8nm:
1.2λ

Coating:
Laser V-Coat (1064nm)

Coating Specification:
R_{abs} ≤0.25% @ 1064nm

Surface Quality:
60-40

f/#:
1.00

Abbe Number (v_d):
67.8

Design Wavelength DWL (nm):
1064

Index of Refraction (n_d):
1.458

Conjugate Distance:
Infinite

Focal Length Specification Wavelength (nm):
587.6

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

Power (diopters):
66.67

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
0.52

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 235:
Compliant

Product Details

- Designed and Coated for Nd:YAG Laser Wavelengths
- High Laser Damage Thresholds
- Low Coefficient of Thermal Expansion

TECHSPEC® Laser Line Coated Aspheric Lenses are designed to maximize performance in high power Nd:YAG laser applications. The aspheric designs minimize spherical aberration to decrease laser spot size and maintain high power per area. Additionally, TECHSPEC® Laser Line Coated Aspheric Lenses feature high performance coatings that have been optimized for the most popular Nd:YAG laser wavelengths and a high damage threshold, UV fused silica substrate that is highly resistant to thermal expansion.

Compatible Mounts

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