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TECHSPEC® 15mm Dia 0.50 NA, 532nm V-Coat, Aspheric Lens



TECHSPEC® Laser Line Coated Aspheric Lenses

Stock **#33-014** [CONTACT US](#)

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- 1 + **\$779⁰⁰**

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Volume Pricing	
Qty 1-5	\$779.80 each
Qty 6-25	\$627.20 each
Qty 26-49	\$588.00 each
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Product Downloads

General

Aspheric Lens **Type:**

Physical & Mechanical Properties

15.00 +0.0/-0.1 **Diameter (mm):**

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):

532

Asphere Figure Error, RMS @ 632.8nm:

1.2λ

Coating:

Laser V-Coat (532nm)

Coating Specification:

R_{abs} <0.25% @ 532nm

Surface Quality:

60-40

f#:

1.00

Abbe Number (v_d):

67.8

Design Wavelength DWL (nm):

532

Index of Refraction (n_d):

1.458

Conjugate Distance:

Infinite

Focal Length Specification Wavelength (nm):

587.6

Damage Threshold, By Design:

10 J/cm² @ 532nm, 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](#)

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

- 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
