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TECHSPEC® 12.5mm Dia., 0.50 Numerical Aperture, Uncoated, Precision Aspheric Lens

TECHSPEC® Precision Aspheric Lenses

Stock **#37-417** **12 In Stock**

Other Coating Options

- 1 + C$376.60

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Volume Pricing	
Qty 1-5	**C$376.60** each
Qty 6-10	**C$338.80** each
Qty 11-25	**C$309.40** each
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Product Downloads

General

Type:

Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):

12.50 +0.00/-0.025

Centering (arcmin):

<3

Clear Aperture CA (mm):
11.25

Edge Thickness ET (mm):
5.50

Center Thickness CT (mm):
7.50 ±0.10

Bevel:
Protective as needed

Shape of Back Surface:
Plano

Optical Properties

Effective Focal Length EFL (mm):
12.50 @ 587.6nm

Numerical Aperture NA:
0.50

Back Focal Length BFL (mm):
8.34

Substrate:
N-SF6

Aspheric Design Wavelength (nm):
587.6

Asphere Figure Error, RMS @ 632.8nm:
0.4λ

Coating:
Uncoated

Surface Quality:
40-20

f/#:
1.00

Abbe Number (v_d):
25.36

Index of Refraction (n_d):
1.805

Wavelength Range (nm):
390 - 2500

Conjugate Distance:
Infinite

Focal Length Specification Wavelength (nm):
587.6

Power (diopters):
80.00

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
9.0

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 233:
Compliant

Product Details

- Improved Versions of Our Aspheric Lenses
- Precision Grade Aspheric Surfaces
- High Numerical Apertures to Maximize Throughput

TECHSPEC® Precision Aspheric Lenses are CNC polished aspheric lenses that feature a 0.4λ RMS aspheric figure error. The precision aspheric figure error makes these lenses ideal for applications that require spherical aberration correction, including imaging and laser focusing applications. These aspheric lenses can also be used to replace multiple spherical elements in optical assemblies to reduce weight and cost. TECHSPEC Precision Aspheric Lenses are available with diameters from 6 to 50mm and high numerical apertures to maximize light throughput.

Compatible Mounts

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