print-screen-header

English AUD Contact Us

All Products / Optics / Optical Lenses / Aspheric Lenses / Glass Polished / Aspheric Lenses

See all 109 Products in Family

TECHSPEC® 50mm Dia., 0.83 Numerical Aperture Uncoated, Aspheric Lens

Stock **#67-248** 3-5 DAYS

Other Coating Options

- 1 + **A$1,176.00**

ADD TO CART

Qty 1-5
A$1,176.00

Qty 6+
A$944.00

Volume Pricing
Request Quote

Product Downloads

SPECIFICATIONS

General

Type:
Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):
50.00 +0.0/-0.1

Centering (arcmin):
≤5

Clear Aperture CA (mm):
45

Edge Thickness ET (mm):
1.44

Center Thickness CT (mm):
20.00 ±0.1

Bevel:
Protective bevel as needed

Shape of Back Surface:
Plano

Optical Properties

Effective Focal Length EFL (mm):
30.00 @ 587.6nm

Numerical Aperture NA:
0.83

Back Focal Length BFL (mm):
18.04

Substrate:
N-SF5

Aspheric Design Wavelength (nm):
587.6

Asphere Figure Error, RMS @ 632.8nm:
1.2λ

Coating:
Uncoated

Surface Quality:
60-40

f/#:
0.6

Wavelength Range (nm):
380 - 2500

Conjugate Distance:
Infinite

Power (diopters):
33.33

Regulatory Compliance

RoHS 2015:
Compliant

Reach 219:
Compliant

Certificate of Conformance:
View

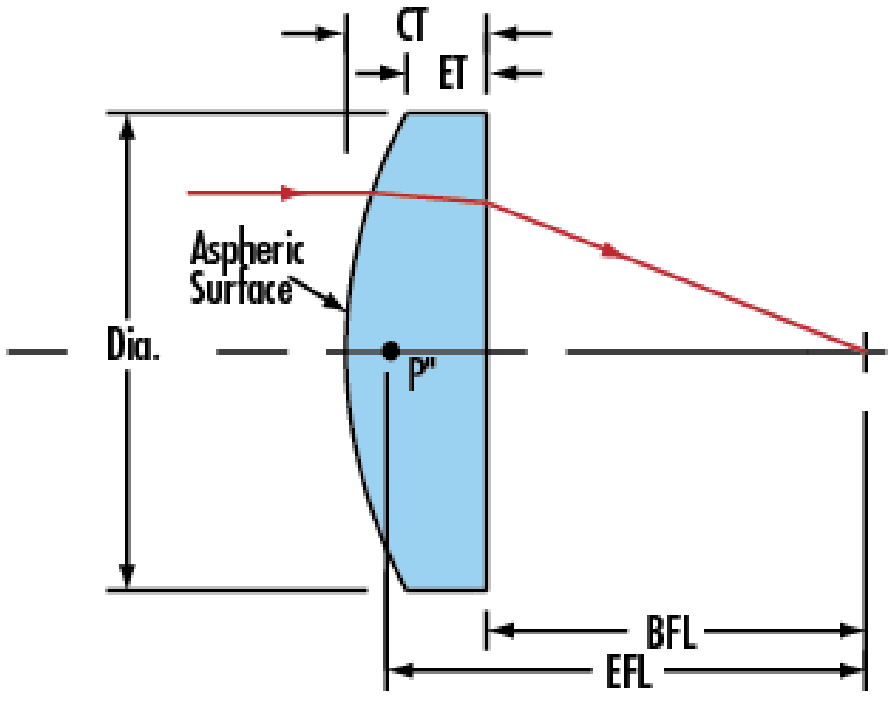
PRODUCT DETAILS

- Diameters from 10 to 200mm
- Focal Lengths from 7.5 to 300mm
- Broadband AR Coatings Available

TECHSPEC® Aspheric Lenses are designed to focus light while eliminating spherical aberration from divergent light sources in applications including focusing the output of a laser diode. **Aspheric lenses can increase the numerical aperture of a lens while minimizing system aberrations.** Aspheric lenses may also reduce the number of elements needed in a multi-element system. Aspheric lenses can reduce overall system weight while providing advantages such as increasing throughput or simplifying assembly.

TECHSPEC Aspheric Lenses feature low f/#'s for optimum light gathering performance. Prescription data is available to easily integrate these aspheric lenses into an optical system. These lenses have also been computer optimized to eliminate spherical aberration while minimizing higher order aberrations. VIS coating option provides less than 1.5% reflection from 425 – 675nm. NIR coating option provides less than 1.5% reflection from 600 – 1050nm. Contact our sales department for volume pricing or for help specifying a custom aspheric lens.

TECHNICAL INFORMATION



COMPATIBLE MOUNTS