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## 12.5mm Dia. x 50mm FL, Uncoated, Best Form Spherical Lens



Best Form Spherical Lenses



Stock #22-566 **12 In Stock**

- 1 + MRP ₹9,585

ⓘ Price inclusive of all taxes

**ADD TO CART**

Volume Pricing	
Qty 1-9	₹9,585 each
Qty 10-25	₹8,626 each
Qty 26-49	₹7,668 each
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### Product Downloads

### General

Double-Convex Lens **Type:**

### Physical & Mechanical Properties

**Diameter (mm):**

12.50 +0/-0.025

Centering (arcmin):  
<1

Bevel:  
Protective as needed

Center Thickness CT (mm):  
2.10 ±0.05

Edge Thickness ET (mm):  
1.24

Clear Aperture CA (mm):  
11.25

## Optical Properties

Back Focal Length BFL (mm):  
48.81

Effective Focal Length EFL (mm):  
50.00

Coating:  
Uncoated

Substrate:   
[Fused Silica](#)

Surface Quality:  
10-5

Power (P-V) @ 632.8nm:  
1.5λ

Irregularity (P-V) @ 632.8nm:  
λ/4

Radius R<sub>1</sub> (mm):  
125.00

Radius R<sub>2</sub> (mm):  
27.92

f#:  
4

Focal Length Specification Wavelength (nm):  
587.6

Numerical Aperture NA:  
0.13

Wavelength Range (nm):  
200 - 2200

Conjugate Distance:  
Infinite

## Regulatory Compliance

Certificate of Conformance:  
[View](#)

Country of Origin:  
Italy

Imported By:  
Edmund Optics India Private Limited  
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## Product Details

- Asymmetrical Design for Precise Focusing and Small Spot Size
- Uncoated Fused Silica Substrate with 10-5 Surface Quality
- Ideal for Higher Power Laser Applications

Best Form Spherical Lenses are double-convex (DCX) lenses designed with asymmetrical faces to achieve the smallest possible spot size with spherical surfaces. Featuring 10-5 surface quality and utilizing UV Fused Silica substrates, these lenses are an alternative to laser grade aspheric lenses. With common diameters and various focal lengths available, these lenses can easily be integrated into optical systems requiring precise focusing. Best Form Spherical Lenses are optimized to reduce spherical aberration and far exceed performance of plano-convex (PCX) lenses without the cost associated with aspheric lens designs. These lenses are ideal for precise laser applications where the large aperture diffraction limited performance of an aspheric lens is not needed.