

50mm Dia x -45.2mm FL Protected Gold Coated, Convex Mirror



Stock **#64-080** **2 In Stock**

- 1 + C\$98⁰⁰

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Volume Pricing	
Qty 1-5	C\$98.00 each
Qty 6-25	C\$88.20 each
Qty 26-49	C\$84.00 each
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General

Spherical Mirror **Type:**

Physical & Mechanical Properties

50.00 +0.00/-0.10 **Diameter (mm):**

9.00 **Center Thickness CT (mm):**

90 **Clear Aperture (%)**:

5.48 **Edge Thickness ET (mm)**:

90.44 **Radius R (mm)**:

Optical Properties

-45.20 **Focal Length FL (mm)**:

Protected Gold (700-10000nm) **Coating**:

Coating Specification:
R_{avg} >96% @ 700 - 2000nm
R_{avg} >96% @ 2000 - 10,000nm

Metal **Coating Type**:

±2 **Focal Length Tolerance (%)**:

[N-BK7](#) **Substrate:**

60-40 **Surface Quality**:

700 - 10000 **Wavelength Range (nm)**:

0.8 J/cm² @ 1064nm, 10ns **Damage Threshold, Reference:**

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 247:**

Product Details

- Variety of Diameters and Focal Lengths Available
- Enhanced Aluminum and Protected Gold Coatings
- Ideal for Imaging Systems

Convex Spherical Mirrors feature a polished plano second surface and convex first surface. Used primarily for increasing an imaging system's field of view, convex mirrors create a virtual, upright image. Shorter focal lengths provide wider fields of view, while longer focal lengths provide less distortion. Convex Spherical Mirrors with Enhanced Aluminum coatings are ideal for applications in the visible spectrum, while Protected Gold provides excellent reflection throughout the NIR, MWIR, and LWMR spectra. The mirrors are offered in 12, 25, and 50mm diameters, in a variety of wavelength ranges.