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TECHSPEC® 50mm Dia x -50mm FL, Protected Gold, Convex Mirror



Convex Mirrors

Stock **#87-695** **5 In Stock**

⊖ 1 ⊕ C\$138⁰⁰

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Volume Pricing	
Qty 1-5	C\$138.60 each
Qty 6-25	C\$109.20 each
Qty 26-49	C\$106.40 each
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General

Spherical Mirror **Type:**

Physical & Mechanical Properties

50.00 **Diameter (mm):**

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

90.00 **Clear Aperture (%):**

+0.0/-0.1 **Dimensional Tolerance (mm):**

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

100.0 **Radius R (mm):**

±0.1 **Thickness Tolerance (mm):**

Optical Properties

-50.00 **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 (%):**

Substrate:
N-BK7

λ/2 **Surface Accuracy:**

60-40 **Surface Quality:**

700 - 2000 **Wavelength Range (nm):**

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
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

- Precision Polished Surface
- λ/2 Surface Accuracy
- Variety of Coating Options Offered

TECHSPEC® Convex Mirrors are ideal for expanding an imaging system's field of view without introducing chromatic aberrations. TECHSPEC Convex Mirrors utilize a precision polished surface with a λ/2 surface accuracy to maintain image quality. These optical mirrors create virtual, upright images. Shorter focal lengths generate wider fields of view, while longer focal lengths minimize distortion.