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TECHSPEC® 50mm Dia x -100mm FL, Protected Silver, Convex Mirror



Convex Mirrors

Stock #87-685 [CONTACT US](#)

⊖ 1 ⊕ £71²⁰

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Volume Pricing	
Qty 1-5	£71.20 each
Qty 6-25	£57.60 each
Qty 26-49	£56.00 each
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! Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Spherical Mirror **Type:**

Physical & Mechanical Properties

50.00 **Diameter (mm):**

Center Thickness CT (mm):

5.00	
90.00	Clear Aperture (%):
+0.0/-0.1	Dimensional Tolerance (mm):
3.43	Edge Thickness ET (mm):
200.0	Radius R (mm):
±0.1	Thickness Tolerance (mm):

Optical Properties

-100.00	Focal Length FL (mm):
Protected Silver (450-10000nm)	Coating:
R _{avg} >98% @ 450 - 2000nm R _{avg} >98% @ 2000 - 10,000nm	Coating Specification:
Metal	Coating Type:
±2	Focal Length Tolerance (%):
N-BK7	Substrate: <input type="checkbox"/>
λ/2	Surface Accuracy:
60-40	Surface Quality:
500 - 10000	Wavelength Range (nm):

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

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.

Coating Curves