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50mm Dia. x 1.0mm Thickness Silicon Substrate Gold Mirror



Silicon Substrate Gold Mirror

Stock **#33-248** **2 In Stock**

⊖ 1 ⊕ A\$638⁰⁰

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Volume Pricing	
Qty 1-5	A\$638.40 each
Qty 6+	A\$508.80 each
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General

Flat Mirror **Type:**

Physical & Mechanical Properties

50.00 +0.0/-0.1 **Diameter (mm):**

1.00 ±0.1 **Thickness (mm):**

Back Surface:

Commercial Polish

90.00 **Clear Aperture (%)**

Optical Properties

Protected Gold (700-2000nm) **Coating:**

1λ **Surface Flatness (P-V):**

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

Silicon (Si) **Substrate:**

R_{avg} >97% @ 800 - 2000nm
R_{avg} >94% @ 700 - 800nm **Coating Specification:**

60-40 **Surface Quality:**

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

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

- Excellent Thermal Stability
- Ideal for Weight Sensitive Applications
- Increased Durability over Glass Substrate Mirrors

Silicon Substrate Gold Mirrors are specifically designed for integration into the most weight-sensitive applications, such as heads-up displays. The thermal stability of the lightweight silicon substrate makes these optical mirrors an excellent solution for applications operating within the near-infrared or infrared regions. Silicon Substrate Gold Mirrors feature increased durability over traditional glass substrate mirrors, and the protected gold metallic coating provides an average reflectivity greater than 97%.

Compatible Mounts