

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



Silicon Substrate Gold Mirror

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

⊖ 1 ⊕ C\$541⁰⁰

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Volume Pricing	
Qty 1-5	C\$541.66 each
Qty 6+	C\$431.84 each
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SPECIFICATIONS

General

Flat Mirror **Type:**

Physical & Mechanical Properties

Diameter (mm):

50.00 +0.0/-0.1

Commercial Polish

Back Surface:

90.00

Clear Aperture (%):

1.00 ±0.1

Thickness (mm):

Optical Properties

1λ

Surface Flatness (P-V):

Silicon (Si)

Substrate: □

60-40

Surface Quality:

R_{avg} >97% @ 800 - 2000nm
R_{avg} >94% @ 700 - 800nm

Coating Specification:

Protected Gold (700-2000nm)

Coating:

700 - 2000

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

- 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%.

CUSTOM

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](#).

COMPATIBLE MOUNTS