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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$638.40

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

Type:

Flat Mirror

Physical & Mechanical Properties

Diameter (mm):

50.00 +0.0/-0.1

Thickness (mm):

1.00 ±0.1

Back Surface:

Commercial Polish

Clear Aperture (%):

90.00

Optical Properties

Coating:

Protected Gold (700-2000nm)

Surface Flatness (P-V):

1λ

Wavelength Range (nm):

700 - 2000

Substrate:

Silicon (Si)

Coating Specification:

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

Surface Quality:

60-40

Damage Threshold, Reference:

0.8 J/cm^2 @ 1064nm, 10ns

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

- 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

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