

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



Silicon Substrate Gold Mirror

Stock **#33-248** **4 In Stock**

-

1

+

€399⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	€399,00 each
Qty 6+	€318,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:

Flat Mirror

Physical & Mechanical Properties

50.00 +0.0/-0.1	Diameter (mm):
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/cm ² @ 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