

12.5mm Dia. x 2.0mm Thickness Silicon Substrate Gold Mirror



Silicon Substrate Gold Mirror

Stock #33-246 [CONTACT US](#)

1

C\$344^{.40}

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Volume Pricing	
Qty 1-5	C\$344.40 each
Qty 6+	C\$274.40 each
Need More?	Request Quote

Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
eDrawing:eprt	
EO Spec Sheet	Download All

General

Type: Flat Mirror

Physical & Mechanical Properties

Diameter (mm): 12.50 +0.0/-0.1

Thickness (mm): 2.00 ±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/cm² @ 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

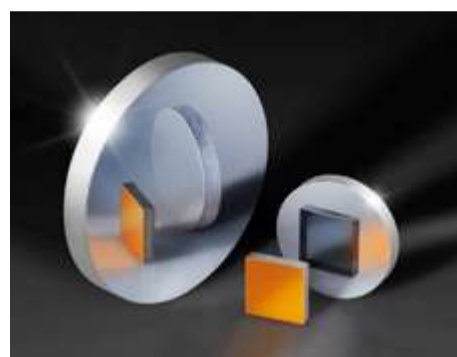
- High-precision surface quality and flatness
 - Tight tolerances and complex geometries
 - Scalable production—from prototype to volume
- Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

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%.

Related Products



Flat Mirrors



ZERODUR® λ/10 First Surface Mirrors



Broadband IR Laser Mirrors



Silicon (Si) Windows

Frequently Purchased Together



#49-155 - 10mm Diameter UV Fused Silica Ground Glass Optical Diffuser
C\$81.20

Qty































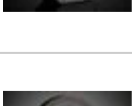









#63-222 - 5mm Diameter UV Fused Silica Ground Glass Optical Diffuser
C\$81.20

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	12.5/12.7mm Optic Dia., SM05 Thin Mount, M4	Fixed		#13-789	C\$27.30 Request Quote	20+ In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., SM05 Thin Mount, 8-32	Fixed		#13-790	C\$27.30 Request Quote	20+ In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., L-Slot Direct Mount	Fixed		#36-416	C\$82.60 Request Quote	20+ In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	12.5/12.7mm Optic Dia., Side Flange Direct Mount	Fixed		#36-418	C\$82.60 Request Quote	11 In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-850	C\$130.20 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-417	C\$135.10 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., Compact Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#34-720	C\$141.40 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	C\$142.80 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-853	C\$145.60 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	C\$148.40 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	C\$151.20 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+ 	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	C\$162.40 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., Compact Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#34-721	C\$163.80 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	C\$168.00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	C\$219.80 Request Quote	5 In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#26-814	C\$225.40 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#26-817	C\$254.80 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-955	C\$365.40 Request Quote	5 In Stock <input type="text" value="1"/> 
MORE+ 	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	C\$574.00 Request Quote	CONTACT US <input type="text" value="1"/> 

	Title	Type	Compare	Stock Number	Price	Buy
 	12.5/12.7mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#84-640	C\$589.40 Request Quote	7 In Stock <input type="text" value="1"/> 
 	12.5/12.7mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-958	C\$600.60 Request Quote	5 In Stock <input type="text" value="1"/> 

Check out our full selection of mounts [here](#).

Resources

Media Type

- Scientific Paper
- Video
- Glossary
- Application Note
- FAQ

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SCIENTIFIC PAPER

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