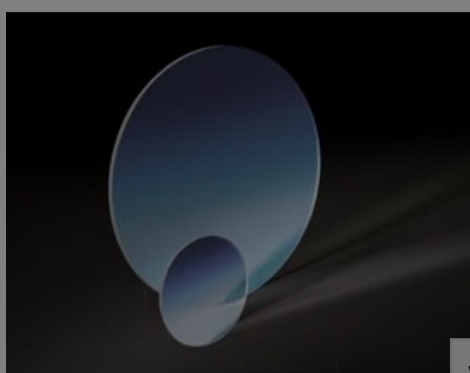


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# 50mm Dia. Uncoated



Laser Debris Shields

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Select Your Country/Region: European Union

Submit

1 €69<sup>,00</sup>

ADD TO CART

Volume Pricing	
Qty 1-5	€69,00 each
Qty 6-25	€58,50 each
Qty 26-49	€51,50 each
Need More?	<a href="#">Request Quote</a>

Prices shown are exclusive of VAT/local taxes

### Product Downloads

- STEP:step
- PDF Drawing:pdf
- IGES:igs
- eDrawing:easm
- EO Spec Sheet
- [Download All](#)

## General

Type: Protective Window

Type of Window: Glass

## Physical & Mechanical Properties

Clear Aperture CA (mm): 42.50

Diameter (mm): 50.00 ±0.1

Thickness (mm): 2.00 +0.15/-0.00

Parallelism (arcmin): <45

Bevel: Break Edges

Clear Aperture (%): 85

Edges: Fine Ground

Poisson's Ratio: 0.16

Young's Modulus (GPa): 73

Knoop Hardness (kg/mm<sup>2</sup>): 522.00

## Optical Properties

Coating: Uncoated

Substrate: Fused Quartz

Index of Refraction (n<sub>d</sub>): 1.458

Surface Quality: 40-20

Transmitted Wavefront, P-V: λ/2 (70% of Dia.)

Abbe Number (v<sub>d</sub>): 67.8

Wavelength Range (nm): 200 - 2200

## Material Properties

Density (g/cm<sup>3</sup>): 2.2

Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C): 0.52

## Regulatory Compliance

RoHS 2015: [Compliant](#)

Certificate of Conformance: [View](#)

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## 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

- Protective Shield for Optical Systems
- Sizes from 50mm to 134mm
- Uncoated and Laser Line Coated Options Available

Laser Debris Shields, also referred to as laser cover slides or laser cover glass, are designed for use in laser machining applications and can dramatically improve the longevity of more complex optical assemblies within a system. These shields are constructed of durable fused silica or fused quartz for an optimal combination of transmission and protection from harsh manufacturing environments. Laser Debris Shields are available either uncoated, in a variety of Nd:YAG laser line Anti Reflective coatings that provide reflectivity of less than 0.25% per surface, or with a NIR I Broadband coating with reflectivity of less than 0.5% per surface.

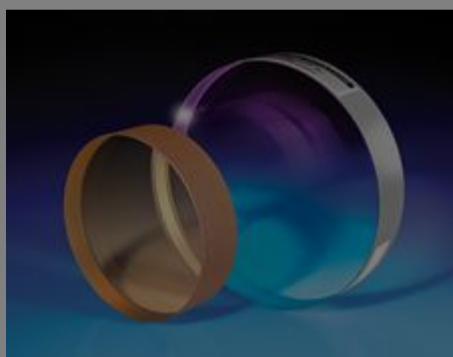
**LASER OPTICS** MADE BY EDMUND OPTICS®

[LEARN MORE](#)

## Technical Information

*Sample Measurement Results*

## Frequently Purchased Together



#01-914-000 - 50.8mm Dia.  $\lambda/10$  Fused Silica Optical Flat  
€235,00

Qty



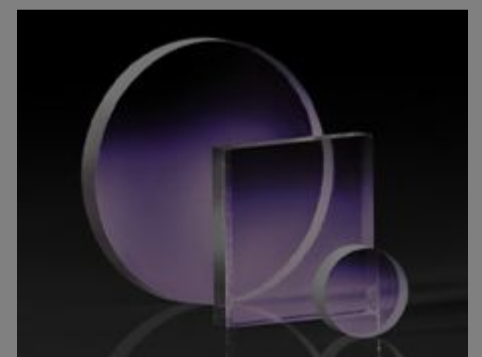
#34-280 - 25.0mm Dia. 45° Fiber Laser Mirror  
€187,00

Qty



#34-599 - 50mm Dia., 1mm Thick, Uncoated  $\lambda/10$  Fused Silica Window  
€280,00

Qty











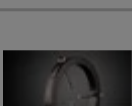

















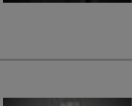







#43-894 - 75mm Diameter x 6.5mm Thickness, Uncoated, BOROFLOAT® Window  
€37,50

Qty





## Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	 50.0mm Optic Dia., Optic Mount				€49,25	1 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 50.0mm Optic Dia., Optic Mount					8 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	€83,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 50.0/50.8mm Optic Dia., E-Series Kinematic Mount	Adjustable - Tip-Tilt		#15-867	€96,00 <a href="#">Request Quote</a>	5 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	€108,00 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/> 
<a href="#">MORE+</a>	 19.5 - 108.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-670	€114,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	€116,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 50.0/50.8mm Optic Dia., Optical Cell Assembly	Fixed		#36-465 <b>CLEARANCE</b>	€119,95 <a href="#">Request Quote</a>	2 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	€120,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 50.0/50.8mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-852	€135,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 50.0/50.8mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-855	€157,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 50.0/50.8mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#26-816	€246,00 <a href="#">Request Quote</a>	12 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 50.0/50.8mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#26-819	€268,00 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/> 
<a href="#">MORE+</a>	 50.0/50.8mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-957	€308,00 <a href="#">Request Quote</a>	3 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	€410,00 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/> 
<a href="#">MORE+</a>	 50.0/50.8mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#55-000	€510,00 <a href="#">Request Quote</a>	7 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a>	 50.0/50.8mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-960	€605,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 

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	Title	Type	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	 50.0/50.8mm Optic Dia., Optical Mou	Adjustable -			€840,00	10 In Stock <input type="text" value="1"/> 

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- Application Note
- Technical Tool
- Published Article
- Glossary
- Video
- FAQ
- Scientific Paper

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### Anti-Reflection (AR) Coatings

**APPLICATION NOTE**

### An Introduction to Optical Coatings

**TECHNICAL TOOL**

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