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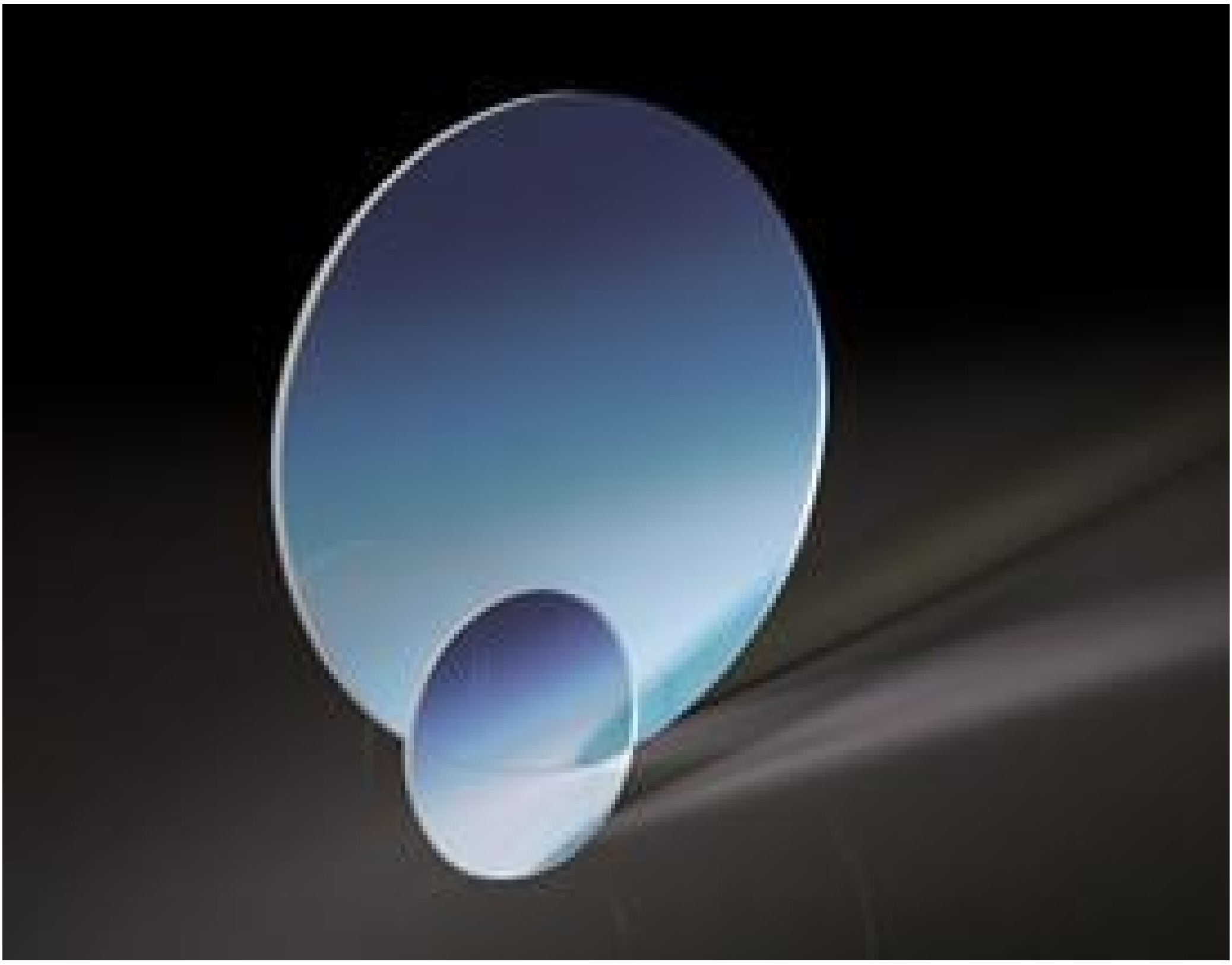
55mm Dia. Uncoated Laser Debris Shield



Laser Debris Shields

Stock **#37-667** **20+ In Stock**

- 1 + **C$104**.30

ADD TO CART

Volume Pricing	
Qty 1-5	**C$104.30** each
Qty 6-25	**C$88.20** each
Qty 26-49	**C$79.10** each
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Product Downloads

General

Type:
Protective Window

Type of Window:
Glass

Physical & Mechanical Properties

Clear Aperture CA (mm):
46.75

Diameter (mm):	55.00 ±0.1
Thickness (mm):	1.50 +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^2):	522.00

Optical Properties

Coating:	Uncoated
Substrate:	Fused Quartz
Index of Refraction (n_d):	1.458
Surface Quality:	40-20
Transmitted Wavefront, P-V:	λ/2 (70% of Dia.)
Abbe Number (v_d):	67.8
Wavelength Range (nm):	200 - 2200

Material Properties

Density (g/cm^3):	2.2
Coefficient of Thermal Expansion CTE (10^{-6}/°C):	0.52

Regulatory Compliance

RoHS 2015:	Compliant
Reach 211:	Compliant
Certificate of Conformance:	View

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:

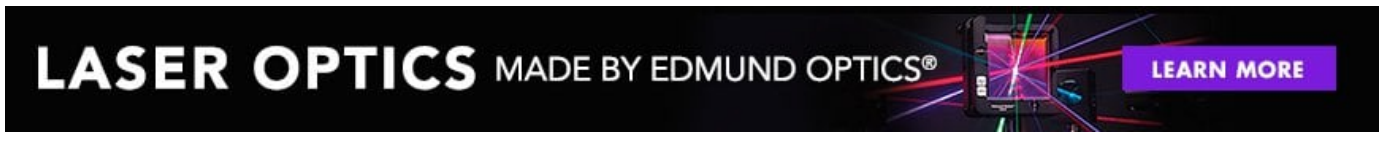
- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our custom manufacturing capabilities or submit an inquiry here.

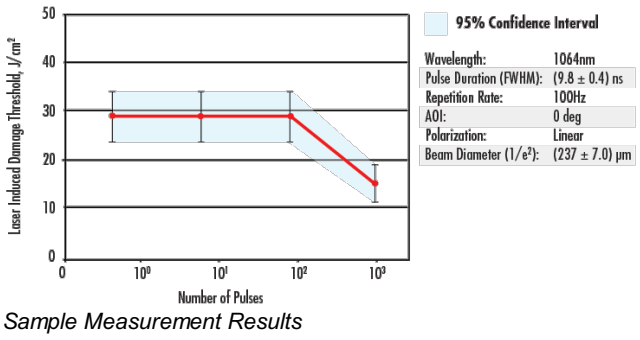
Product Details

- 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 Broadand coating with reflectivity of less than 0.5% per surface.



Technical Information



Sample Measurement Results

Compatible Mounts

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