

55mm Dia. 355nm Laser Debris Shield



Laser Debris Shields

Stock **#37-670** **3 In Stock**

-

1

+

A\$201⁶⁰

ADD TO CART

Volume Pricing	
Qty 1-5	A\$201.60 each
Qty 6-25	A\$174.40 each
Qty 26-49	A\$156.00 each
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SPECIFICATIONS

General

Protective Window

Type:

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/mm²):
522.00	

Optical Properties

	Coating:
Laser V-Coat (355nm)	
	Design Wavelength DWL (nm):
355	
	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	
	Coating Specification:
R _{abs} <0.25% @ 355nm	
	Damage Threshold, By Design:
7.5 J/cm² @ 355nm, 20ns, 20Hz	

Material Properties

	Density (g/cm³):
2.2	
	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
0.52	

Regulatory Compliance

	RoHS 2015:
Compliant	
	Reach 209:
Compliant	
	Certificate of Conformance:
View	

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.

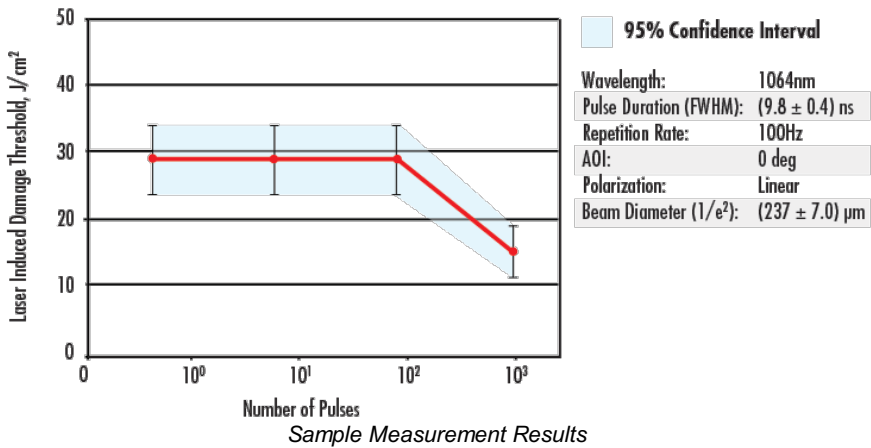
LASER OPTICS

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TECHNICAL INFORMATION



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