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50mm Dia. 355nm Laser Debris Shield



Laser Debris Shields

Stock #37-669 **13 In Stock**

MRP ₹12,208

Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹12,208 each
Qty 6-25	₹10,392 each
Qty 26-49	₹9,282 each
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Product Downloads

General

Protective Window **Type:**

Glass **Type of Window:**

Physical & Mechanical Properties

Clear Aperture CA (mm):

42.50	
50.00 ±0.1	Diameter (mm):
2.00 +0.15/-0.00	Thickness (mm):
<45	Parallelism (arcmin):
Break Edges	Bevel:
85	Clear Aperture (%):
Fine Ground	Edges:
0.16	Poisson's Ratio:
73	Young's Modulus (GPa):
522.00	Knoop Hardness (kg/mm²):

Optical Properties

Laser V-Coat (355nm)	Coating:
355	Design Wavelength DWL (nm):
Fused Quartz	Substrate: <input type="checkbox"/>
1.458	Index of Refraction (n_d):
40-20	Surface Quality:
λ/2 (70% of Dia.)	Transmitted Wavefront, P-V:
67.8	Abbe Number (v_d):
R _{abs} <0.25% @ 355nm	Coating Specification:
7.5 J/cm ² @ 355nm, 20ns, 20Hz	Damage Threshold, By Design: <input type="checkbox"/>

Material Properties

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

Regulatory Compliance

Compliant	RoHS 2015:
Compliant	Reach 209:
View	Certificate of Conformance:
Singapore	Country of Origin:
Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	Imported By:

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:

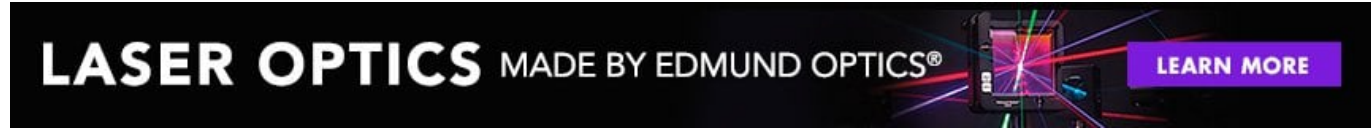
- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

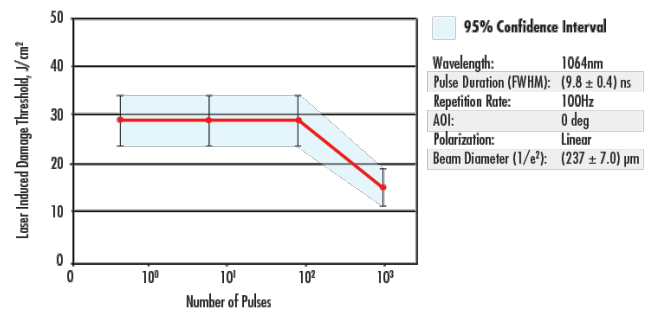
Product Details

- 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.



Technical Information



Wavelength: 1064nm
Pulse Duration (FWHM): (9.8 ± 0.4) ns
Repetition Rate: 100Hz
AOI: 0 deg
Polarization: Linear
Beam Diameter (1/e²): (237 ± 7.0) μm

Compatible Mounts