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50.8mm Dia., 4mm Thick, Uncoated, ISP Optics Magnesium Fluoride (MgF₂) Window | MF-W-50-4

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Stock **#24-487** CLEARANCE **3 In Stock**

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1

+

S\$632⁰⁰

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General

Protective Window	Type:
MF-W-50-4	Model Number:

Physical & Mechanical Properties

Protective as needed	Bevel:
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85	Clear Aperture (%):
43.18	Clear Aperture CA (mm):
50.80 +0.00/-0.13	Diameter (mm):
4.00 ±0.13	Thickness (mm):
Fine Ground	Edges:
415.00	Knoop Hardness (kg/mm²):
<3	Parallelism (arcmin):
0.27	Poisson's Ratio:
138	Young's Modulus (GPa):

Optical Properties	
106.22	Abbe Number (v _d):
Uncoated	Coating:
1.377	Index of Refraction (n _d):
Magnesium Fluoride (MgF ₂)	Substrate:
2λ	Surface Flatness (P-V):
40-20	Surface Quality:
120 - 7000	Wavelength Range (nm):

Material Properties	
13.7	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
3.18	Density (g/cm³):

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

Product Details

- Excellent Transmission from 0.12 to 7µm
- Rugged and Durable
- Resistant to Chemical Etching

ISP Optics Magnesium Fluoride (MgF₂) Windows feature a low refractive index and high transmission from the Deep UV (DUV) to the Mid-Wave Infrared (MMIR), without the need for an Anti-Reflection (AR) coating. Magnesium Fluoride is extremely durable, being resistant to mechanical and thermal shock. Featuring strong resistance to chemical etching and stability in water, these windows are able to be used in harsh external environments. ISP Optics Magnesium Fluoride (MgF₂) Windows are ideal for a wide range of applications from use in the DUV for Hydrogen Lyman-alpha line applications and excimer laser applications, to applications requiring transparency across multiple wavelengths such as spectroscopy and fluorescence imaging.