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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**

1 £351¹⁸

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General

MF-W-50-4 **Model Number:**

Protective Window **Type:**

Crystal **Type of Window:**

Physical & Mechanical Properties

43.18	Clear Aperture CA (mm):
50.80 +0.00/-0.13	Diameter (mm):
4.00 ±0.13	Thickness (mm):
<3	Parallelism (arcmin):
Protective as needed	Bevel:
85	Clear Aperture (%):
Fine Ground	Edges:
0.27	Poisson's Ratio:
138	Young's Modulus (GPa):
415.00	Knoop Hardness (kg/mm ²):

Optical Properties

Uncoated	Coating:
Magnesium Fluoride (MgF ₂)	Substrate: <input type="checkbox"/>
1.377	Index of Refraction (n _d):
40-20	Surface Quality:
106.22	Abbe Number (v _d):
120 - 7000	Wavelength Range (nm):
2λ	Surface Flatness (P-V):

Material Properties

3.18	Density (g/cm ³):
13.7	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):

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 (MMR), 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.