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50.8mm Dia., 4mm Thick, Uncoated, ISP Optics Magnesium Fluoride (MgF_2) Window | MF-W-50-4

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

- 1 + **€438**.95

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Qty 1+	**€438,95** each
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Product Downloads

General

Model Number:
MF-W-50-4

Type:
Protective Window

Type of Window:
Crystal

Physical & Mechanical Properties

Clear Aperture CA (mm):
43.18

Diameter (mm):
50.80 +0.00/-0.13

Thickness (mm):
4.00 ±0.13

Parallelism (arcmin):
<3

Bevel:
Protective as needed

Clear Aperture (%):
85

Edges:
Fine Ground

Poisson's Ratio:
0.27

Young's Modulus (GPa):
138

Knoop Hardness (kg/mm^2):
415.00

Optical Properties

Coating:
Uncoated

Substrate:
Magnesium Fluoride (MgF_2)

Index of Refraction (n_d):
1.377

Surface Quality:
40-20

Abbe Number (v_d):
106.22

Wavelength Range (nm):
120 - 7000

Surface Flatness (P-V):
2λ

Material Properties

Density (g/cm^3):
3.18

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
13.7

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 240:
Compliant

Product Details

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

ISP Optics Magnesium Fluoride (MgF_2) Windows feature a low refractive index and high transmission from the Deep UV (DUV) to the Mid-Wave Infrared (MWIR), 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 (MgF_2) 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.

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