

TECHSPEC[®] 50mm Square, MgF₂ Coated, B270 Window

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Stock **#48-418** 20+ In Stock

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1

+

£64⁸⁰

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Volume Pricing	
Qty 1-5	£64.80 each
Qty 6-25	£52.00 each
Qty 26-99	£48.80 each
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 Prices shown are exclusive of VAT/local taxes

Product Downloads

56.00

#Sorting:

General

Protective Window

Type:

Physical & Mechanical Properties

45.00 x 45.00	Clear Aperture CA (mm):
50.00 x 50.00	Dimensions (mm):
3.00	Thickness (mm):
50.00	Length (mm):
50.00	Width (mm):
±0.25	Dimensional Tolerance (mm):
Protective as needed	Bevel:
Fine Ground	Edges:
0.22	Poisson's Ratio:
71.5	Young's Modulus (GPa):
500.00	Knoop Hardness (kg/mm²):

Optical Properties	
MgF ₂ (632.8nm)	Coating:
B270	Substrate: □
1.523	Index of Refraction (n _d):
60–40	Surface Quality:
58.3	Abbe Number (v _d):
R _{avg} ≤1.50% @ 632.8nm (N-BK7)	Coating Specification:
400 - 700	Wavelength Range (nm):
1λ	Surface Flatness (P-V):
10 J/cm² @ 532nm, 10ns	Damage Threshold, By Design:

Material Properties	
2.56	Density (g/cm³):
9.4 (+20 to +300°C)	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

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

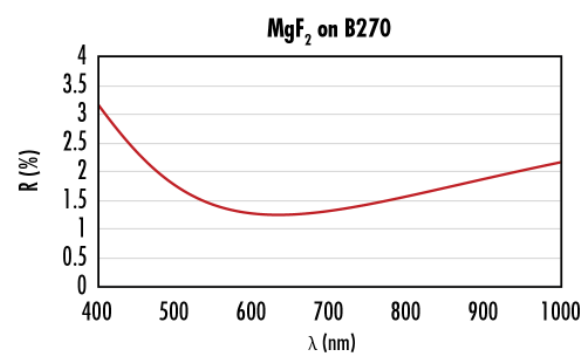
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- Large Selection of Sizes
- Available Uncoated, MgF2, or VIS-NIR Anti-Reflection (AR) Coated
- Custom Sizes Available for Volume OEM Requirements

TECHSPEC® B270 Windows offer a high transmission from the visible to the near-infrared (NIR). They have a similar refractive index to N-BK7 while being more cost-effective. These windows are often used as a protective element due to their high solarization stability and chemical resistance, making them ideal for standard window applications. TECHSPEC® B270 Windows are available either uncoated or coated with a MgF2 or VS-NIR Anti-Reflection (AR) Coating. Both circular and square options are offered in various sizes, and custom sizes and coatings are available for OEM applications.

Technical Information



Compatible Mounts

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