TECHSPEC 75mm Diameter, MgF_2 Coated, B270 Window

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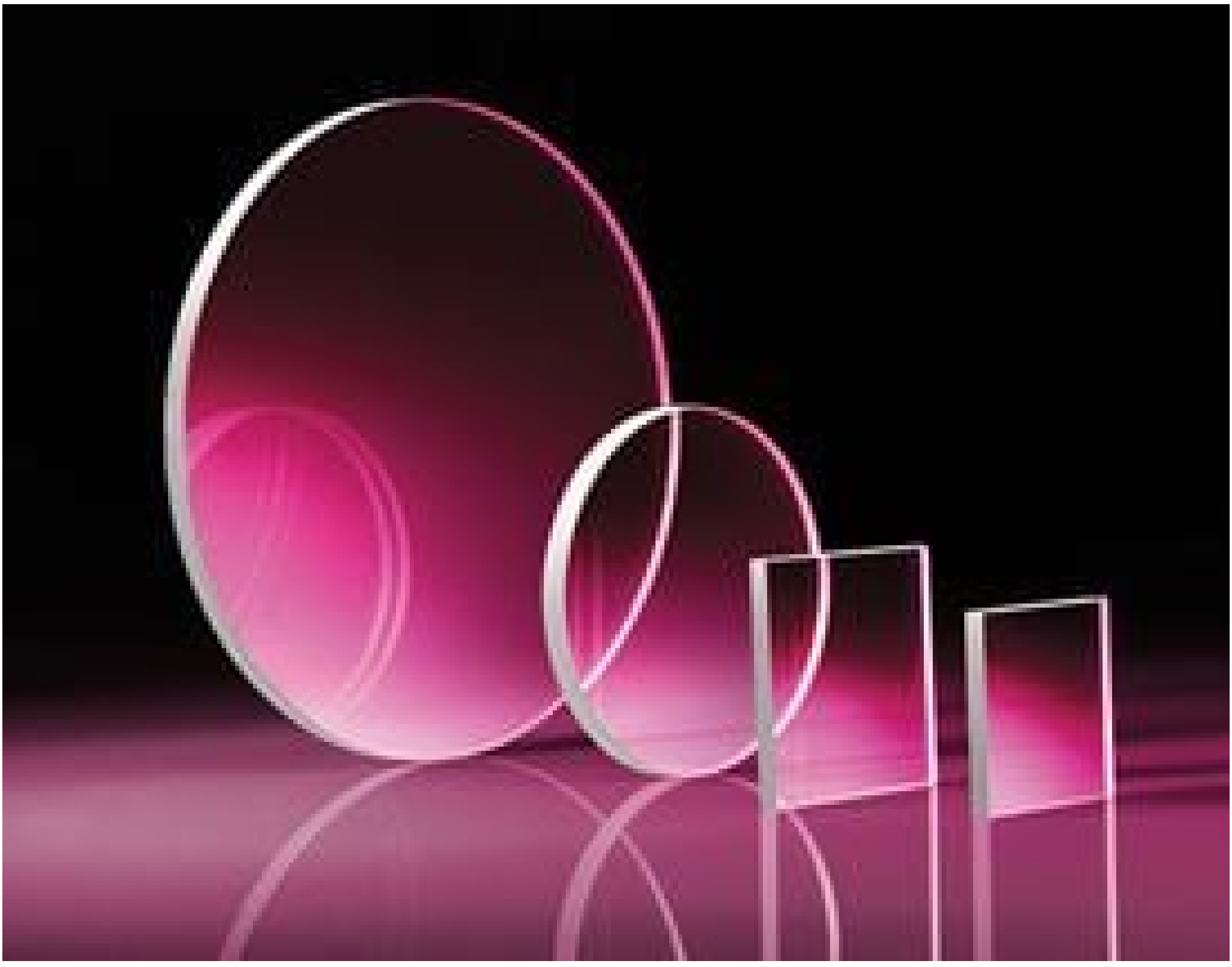

Stock **#48-419** **3 In Stock**

- 1 + **€73**.54 ~~€122,57~~

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Volume Pricing	
Qty 1-5	~~€122,57~~ **€73,54** each
Qty 6-25	~~€97,85~~ **€58,71** each
Qty 26-99	~~€91,67~~ **€55,00** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:	Protective Window

Physical & Mechanical Properties

Bevel: Protective as needed	**Clear Aperture CA (mm):** 70.00
Diameter (mm): 75.00 ±0.25	**Thickness (mm):** 3.00
Edges: Fine Ground	**Knoop Hardness (kg/mm^2):** 500.00
Poisson's Ratio: 0.22	**Young's Modulus (GPa):** 71.5

Optical Properties

Abbe Number (v_d): 58.3	**Coating:** MgF_2 (632.8nm)
Coating Specification: R_{avg} ≤1.50% @ 632.8nm (N-BK7)	**Index of Refraction (n_d):** 1.523
Substrate: B270	**Surface Flatness (P-V):** 1λ
Surface Quality: 60-40	**Wavelength Range (nm):** 400 - 700
Damage Threshold, By Design: 10 J/cm^2 @ 532nm, 10ns	

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C): 9.4 (+20 to +300°C)	**Density (g/cm^3):** 2.56

Regulatory Compliance

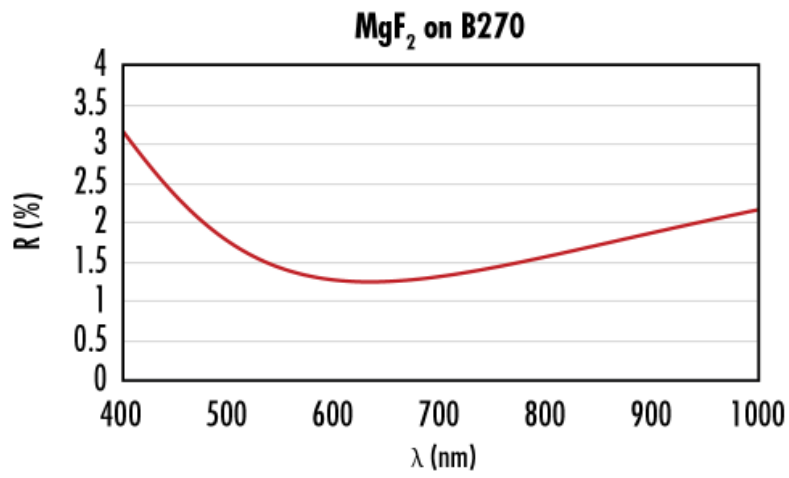
RoHS 2015: Compliant	**Certificate of Conformance:** View
Reach 247: Compliant	

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 VIS-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



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.**

COMPATIBLE MOUNTS