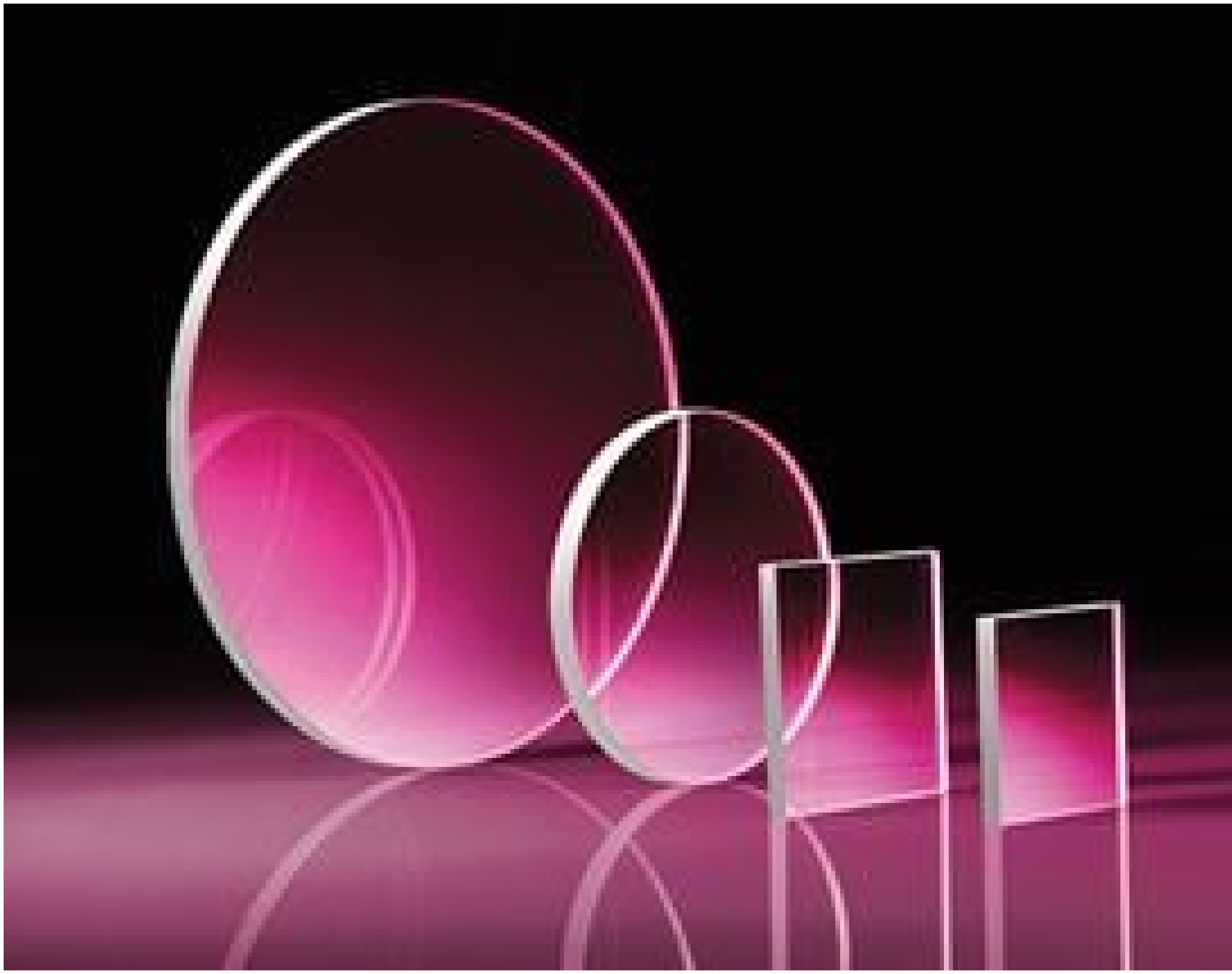
See all 68 Products in Family

TECHSPEC® 75mm Diameter, MgF_2 Coated, B270 Window

See More by SCHOTT Optical Components



Stock **#48-419** **20+ In Stock**

- 1 + **€131**.00

ADD TO CART

Volume Pricing	
Qty 1-5	**€131,00** each
Qty 6-25	**€105,00** each
Qty 26-99	**€98,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Protective Window

Type of Window:
Glass

Physical & Mechanical Properties

Clear Aperture CA (mm):

70.00

Diameter (mm):

75.00 ±0.25

Thickness (mm):

3.00

Dimensional Tolerance (mm):

±0.25

Bevel:

Protective as needed

Edges:

Fine Ground

Poisson's Ratio:

0.22

Young's Modulus (GPa):

71.5

Knoop Hardness (kg/mm^2):

500.00

Optical Properties

Coating:

MgF_2 (632.8nm)

Substrate:

B270

Index of Refraction (n_d):

1.523

Surface Quality:

60-40

Abbe Number (v_d):

58.3

Coating Specification:

R_{avg} ≤1.50% @ 632.8nm (N-BK7)

Wavelength Range (nm):

400 - 700

Surface Flatness (P-V):

1λ

Damage Threshold, By Design:

10 J/cm^2 @ 532nm, 10ns

Material Properties

Density (g/cm^3):

2.56

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

9.4 (+20 to +300°C)

Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

View

Reach 247:

Compliant

Need different specs or modifications?

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

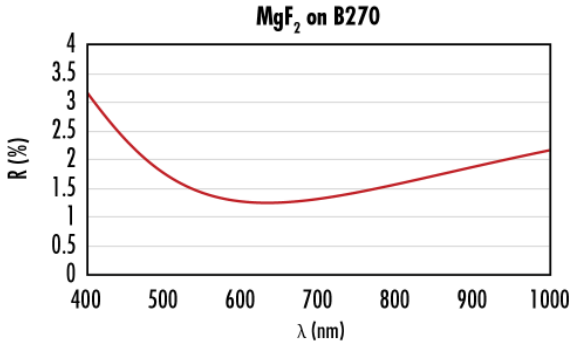
Learn more about our custom manufacturing capabilities or submit an inquiry here.

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 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



Compatible Mounts

;