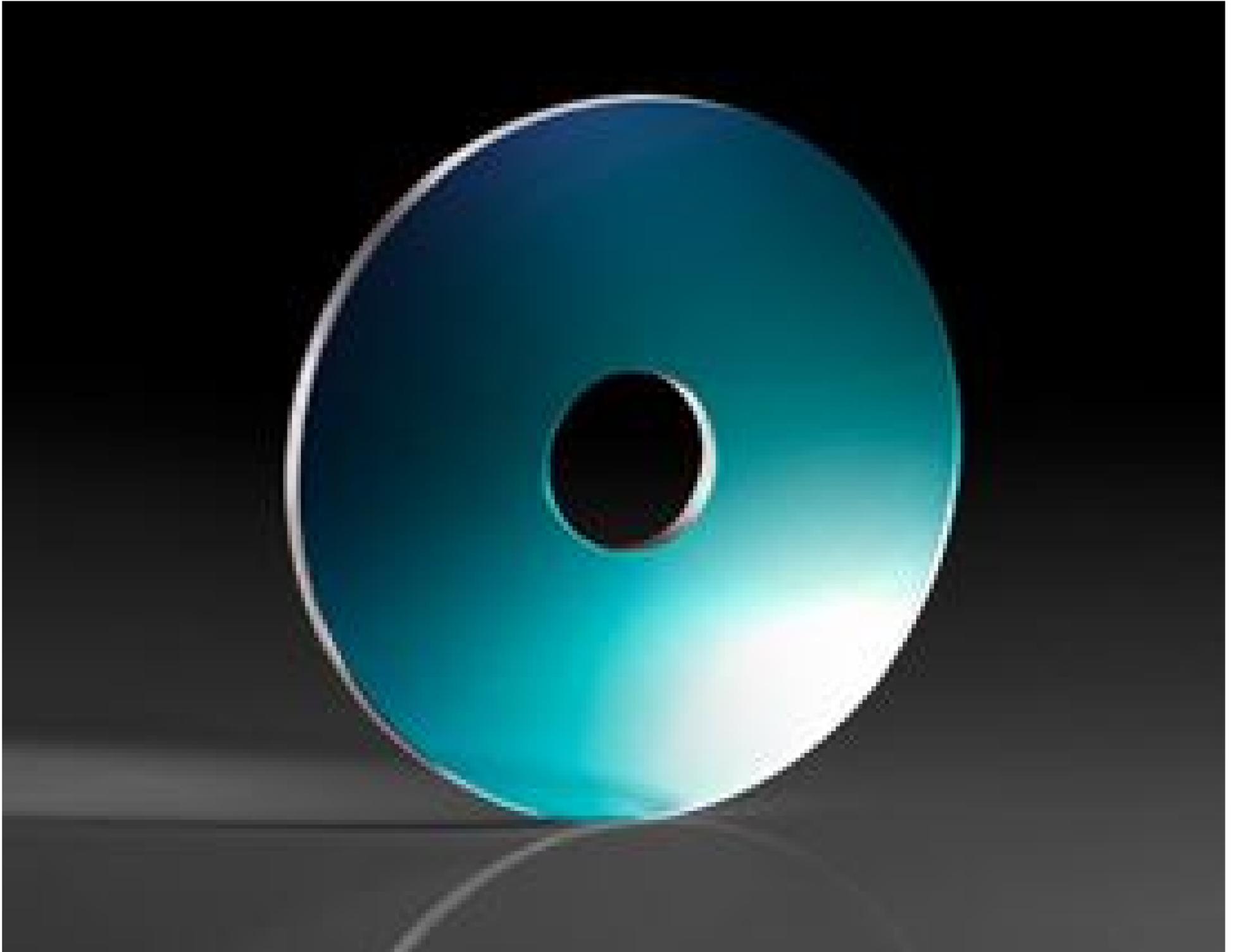


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25.4mm Diameter, 6.35mm Through Hole, Sapphire Window



25.4mm Diameter, 6.35mm Through Hole, Sapphire Window

Stock **#17-214** **20+ In Stock**

⊖ 1 ⊕ £106⁴⁰

ADD TO CART

Volume Pricing

Qty 1-5	£106.40 each
Qty 6-25	£91.20 each
Qty 26-49	£90.40 each
Need More?	Request Quote

! Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Protective Window

Type:

Crystal

Type of Window:

Physical & Mechanical Properties

Diameter (mm):

25.40 ±0.127

Thickness (mm):

1.00 ±0.127

Parallelism (arcmin):

≤3.5

Bevel:

Protective as needed

Poisson's Ratio:

0.27

Young's Modulus (GPa):

435

Knoop Hardness (kg/mm²):

1,900.00

Through Hole Diameter (mm):

6.35 ±0.127

Optical Properties

Coating:

Uncoated

Substrate:

Sapphire (Al₂O₃)

Index of Refraction (n_d):

1.77

Surface Quality:

80-50

Abbe Number (v_d):

72.24

Surface Roughness (μm):

0.1 per Inch

Birefringence (n_o-n_e):

0.008 for Visible Light Orthogonal to Optical Axis

Axis Orientation:

Random

Wavelength Range (nm):

330 - 5500

Surface Flatness (P-V):

2λ (typical)

Material Properties

Density (g/cm³):

3.97

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):

8.8

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

- 25.4mm Diameter Sapphire Substrates
- 3.2 - 19.1mm Through Hole Diameters
- High Transmission From 0.33 - 5.5μm

Sapphire Windows with Through Holes, also referred to as sapphire washers, feature 25.4mm diameter sapphire substrates with a centered through hole ranging in diameter from 3.2 - 19.1mm. Sapphire offers extreme surface hardness second only to [diamond](#), high thermal conductivity, and is chemically inert, making it ideal for use in harsh environments. These windows provide high transmission from 0.33 - 5.5μm and can be made much thinner than glass windows due to the structural strength of sapphire. Sapphire Windows with Through Holes can be manufactured as modified standard versions of our [sapphire windows](#) or as entirely custom products; please contact us to discuss your application requirements.

