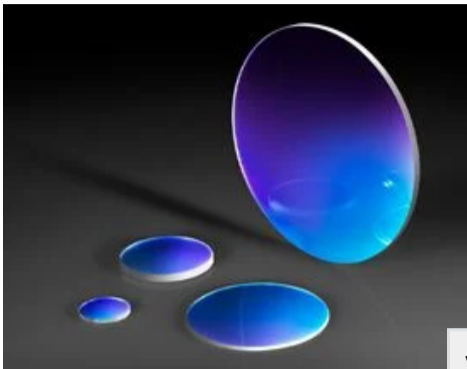


TECHSPEC®

25.4mm Dia., 2.3mm Thick, NIR II AR Coated Sapphire Window











Stock #39-264 **10 In Stock**

- 1 +

C\$194^{.60}

ADD TO CART

Volume Pricing	
Qty 1-24	C\$194.60 each
Qty 25-50	C\$149.80 each
Qty 51-99	C\$147.00 each
Need More?	Request Quote

Product Downloads	
 STEP:step	 Curve:pdf
 PDF Drawing:pdf	 IGES:igs
 Curve (xlsx):xlsx	
 eDrawing:eprt	
 EO Spec Sheet	 Download All

General

Type: Protective Window	Type of Window: Crystal
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Physical & Mechanical Properties

Clear Aperture CA (mm): 22.86	Diameter (mm): 25.40 ±0.05
Thickness (mm): 2.30 ±0.10	Parallelism (arcmin): ≤3.5
Bevel: Protective as needed	Clear Aperture (%): ≥90
Edges: Fine Ground	Poisson's Ratio: 0.27
Young's Modulus (GPa): 435	Knoop Hardness (kg/mm²): 1,900.00

Optical Properties

Coating: NIR II (750-1550nm)	Substrate: ^① Sapphire (Al ₂ O ₃)
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
Coating Specification: R _{abs} ≤1.5% @ 750 - 800nm R _{abs} ≤1.0% @ 800 - 1550nm	Wavelength Range (nm): 750 - 1550

$R_{avg} \leq 0.7\%$ @
750 - 1550nm

Surface Flatness (P-V): 2λ (typical)

Material Properties

Density (g/cm³): 3.97

Coefficient of Thermal Expansion CTE (10⁻⁶/°C): 5.4 (Parallel to C-Axis)
4.3 (Perpendicular to C-Axis)

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: **View**

Reach 235: **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

- Features Extreme Surface Hardness Chemical Resistance
- Transmits Wavelengths Ranging From UV to Mid-Infrared
- Thinner and Stronger than Standard Glass Windows
- Anti-Reflection Coating Options Covering 350 - 5000nm Available

TECHSPEC® Sapphire Windows are manufactured from single crystal sapphire, making them ideal for demanding applications (such as laser systems) because of their extreme surface hardness, high thermal conductivity, high dielectric constant and resistance to common chemical acids and alkalis. Sapphire is the second hardest crystal next to **diamond** and, because of their structural strength, sapphire windows can be made much thinner than other common windows with improved transmittance. Chemically, sapphire is single crystal aluminum oxide (Al₂O₃) and is useful in a transmission range from UV to mid-infrared or 330 - 5500nm when uncoated. TECHSPEC® Sapphire Windows are available with anti-reflection (AR) coatings to improve performance in the visible, NIR, and IR spectra with coating options covering 350 - 5000nm.

Technical Information

Related Products



Cage System Optical Lens Mounts



C, S, and T-Mount Circular Optic Mounts



PUROSOL™ Optical Cleaner

Frequently Purchased Together



#03-639 - 24" x 8", Breadboard
C\$417.20



#43-636 - 25.4mm Dia., 2.25mm Thick, Uncoated, Sapphire Window
C\$162.40















































#85-915 - 1550nm CWL, 50mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter
C\$1,211.00



#36-567 - 12.5mm Dia., 1mm Thick, NIR II AR Coated Sapphire Window
C\$110.60

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	25.0/25.4mm Optic Dia., SM1 Thin Mount, M4	Fixed		#13-787	C\$29.40 Request Quote	4 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., SM1 Thin Mount, 8-32	Fixed		#13-788	C\$29.40 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.4mm Optic Dia., 10mm Max Optic Thickness, Optic Mount	Fixed		#64-561	C\$45.85 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.4mm Optic Dia., 13mm Max Optic Thickness, Optic Mount	Fixed		#64-562	C\$45.85 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., E-Series Kinematic Mount	Adjustable - Tip-Tilt		#15-866	C\$60.90 Request Quote	10 In Stock <input type="text" value="1"/>
	2.0 - 35.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-668	C\$88.20 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., L-Slot Direct Mount	Fixed		#36-410	C\$95.20 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., Side Flange Direct Mount	Fixed		#36-414	C\$99.40 Request Quote	20+ In Stock <input type="text" value="1"/>
	9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	C\$116.20 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-851	C\$137.90 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-411	C\$142.80 Request Quote	5 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., Optical	Fixed		#36-461 CLEARANCE	C\$143.93 Request	2 In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
 	Cell Assembly				Quote	
 	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	C\$148.40 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-854	C\$149.80 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	C\$151.20 Request Quote	CONTACT US <input type="text" value="1"/> 
 	19.5 - 108.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-670	C\$159.60 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	C\$162.40 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	C\$168.00 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	C\$219.80 Request Quote	5 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#26-815	C\$225.40 Request Quote	4 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#26-818	C\$254.80 Request Quote	9 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-956	C\$386.40 Request Quote	CONTACT US <input type="text" value="1"/> 
 	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	C\$574.00 Request Quote	CONTACT US <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#54-999	C\$645.40 Request Quote	4 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-959	C\$756.00 Request Quote	6 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-776	C\$1,057.00 Request Quote	2 In Stock <input type="text" value="1"/> 

Check out our full selection of mounts [here](#).

Resources

Media Type

- Application Note
- Technical Tool
- Video
- Glossary
- FAQ

APPLICATION NOTE
Anti-Reflection (AR) Coatings

APPLICATION NOTE
An Introduction to Optical Coatings

TECHNICAL TOOL
Beam Displacement Calculator

APPLICATION NOTE
Understanding Optical Windows

VIDEO
Optical Windows Review

APPLICATION NOTE
Optical Glass

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