

**TECHSPEC® 10mm Dia. x 1.5mm Thickness Uncoated, Silicon Window**



TECHSPEC Silicon (Si) Windows

Stock **#68-521** **5 In Stock**

⊖ 1 ⊕ £103<sup>20</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-10	£103.20 each
Qty 11-25	£92.00 each
Qty 26-49	£85.60 each
Need More?	<a href="#">Request Quote</a>

**!** Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Protective Window **Type:**

**Physical & Mechanical Properties**

Protective as needed **Bevel:**

**Clear Aperture (%):**

90.00	
9.00	<b>Clear Aperture CA (mm):</b>
10.00 +0.0/-0.1	<b>Diameter (mm):</b>
1.50 ±0.1	<b>Thickness (mm):</b>
Fine Ground	<b>Edges:</b>
1,150.00	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b>
<3	<b>Parallelism (arcmin):</b>
0.27	<b>Poisson's Ratio:</b>
140	<b>Young's Modulus (GPa):</b>

## Optical Properties

Uncoated	<b>Coating:</b>
3.422 @5μm	<b>Index of Refraction (n<sub>d</sub>):</b>
Silicon (Si)	<b>Substrate:</b>
1λ	<b>Surface Flatness (P-V):</b>
60-40	<b>Surface Quality:</b>
1200 - 7000	<b>Wavelength Range (nm):</b>

## Material Properties

2.55	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>
2.33	<b>Density (g/cm<sup>3</sup>):</b>

## Regulatory Compliance

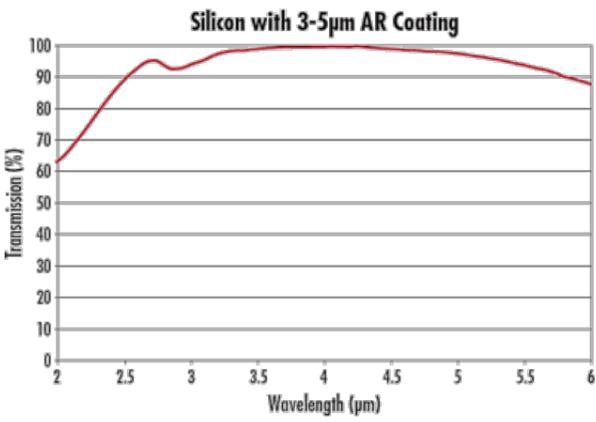
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">Compliant</a>	<b>Reach 219:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>

## Product Details

- Transmission from 1.2 - 7μm
- Available Uncoated or AR Coated for 1.65 - 5μm
- Ideal for Weight Sensitive Applications

TECHSPEC® Silicon (Si) Windows manufactured from optical grade silicon are popular for the 1.2 - 7μm spectral region due to their low cost and low density. Due to its low density (half that of [germanium](#) or [zinc selenide](#)), silicon is ideal for weight sensitive applications, especially those in the 1.65 - 5μm region. Density is 2.329 g/cm<sup>3</sup> and Knoop Hardness is 1150, making it harder and less brittle than germanium. TECHSPEC® Silicon (Si) Windows available uncoated or AR coated for 1.65 - 5μm. These crystal windows are offered in diameters ranging from 10 – 76.20mm.

## 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

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