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**TECHSPEC® 50mm Dia. x 1.0mm Thickness Uncoated, Silicon Window**



TECHSPEC Silicon (Si) Windows

Stock **#68-528** **4 In Stock**

MRP ₹32,688

**Price inclusive of all taxes**

**ADD TO CART**

Volume Pricing	
Qty 1-10	₹32,688 each
Qty 11-25	₹28,855 each
Qty 26-49	₹27,240 each
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Product Downloads

**General**

Protective Window **Type:**

Crystal **Type of Window:**

**Physical & Mechanical Properties**

Clear Aperture CA (mm):

45.00	<b>Diameter (mm):</b>
50.00 +0.0/-0.1	
	<b>Thickness (mm):</b>
1.00 ±0.1	
	<b>Parallelism (arcmin):</b>
<3	
	<b>Dimensional Tolerance (mm):</b>
+0.0/-0.1	
	<b>Bevel:</b>
Protective as needed	
	<b>Clear Aperture (%):</b>
90.00	
	<b>Edges:</b>
Fine Ground	
	<b>Poisson's Ratio:</b>
0.27	
	<b>Young's Modulus (GPa):</b>
140	
	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b>
1,150.00	

## Optical Properties

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

## Material Properties

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

## Regulatory Compliance

<b>Compliant</b>	<b>RoHS 2015:</b>
<b>Compliant</b>	<b>Reach 219:</b>
<b>View</b>	<b>Certificate of Conformance:</b>
Singapore	<b>Country of Origin:</b>
Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	<b>Imported By:</b>

## 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

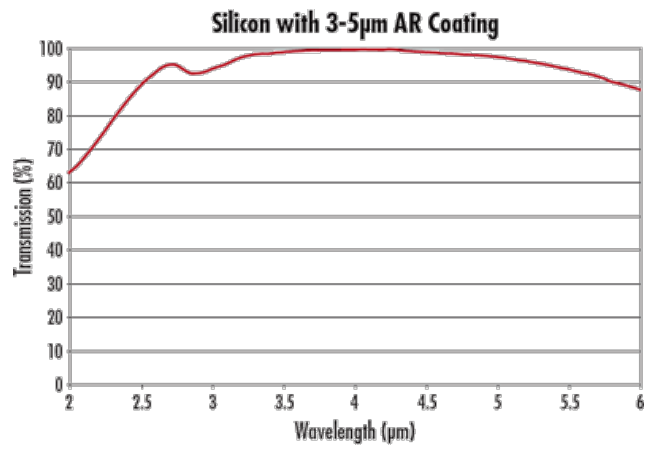
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

- 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 - 7 $\mu$ m 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 - 5 $\mu$ m 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 - 5 $\mu$ m. These crystal windows are offered in diameters ranging from 10 – 76.20mm.

## Technical Information



## Compatible Mounts

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