

TECHSPEC[®] 50mm Dia. x 1.0mm Thickness 1.65-3μm Coated Silicon Window



TECHSPEC Silicon (Si) Windows

Stock **#17-201** **4 In Stock**

-

1

+

€384⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-10	€384,00 each
Qty 11-25	€340,00 each
Qty 26-49	€321,00 each
Need More?	Request Quote

i Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
Type:	Protective Window
Type of Window:	Crystal

Physical & Mechanical Properties	
Clear Aperture CA (mm):	

45.00	
	Diameter (mm):
50.00 +0.0/-0.1	
	Thickness (mm):
1.00 ±0.1	
	Parallelism (arcmin):
<3	
	Bevel:
Protective as needed	
	Edges:
Fine Ground	
	Poisson's Ratio:
0.27	
	Young's Modulus (GPa):
140	
	Knoop Hardness (kg/mm²):
1,150.00	

Optical Properties	
	Coating:
BBAR (1650-3000nm)	
	Substrate:
Silicon (Si)	
	Index of Refraction (n _d):
3.422 @ 5µm	
	Surface Quality:
60-40	
	Coating Specification:
R _{avg} <1% @ 1650 - 3000nm R _{abs} <2% @ 1650 - 3000nm	
	Wavelength Range (nm):
1650 - 3000	
	Surface Flatness (P-V):
1λ	

Material Properties	
	Density (g/cm³):
2.33	
	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
2.55	

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

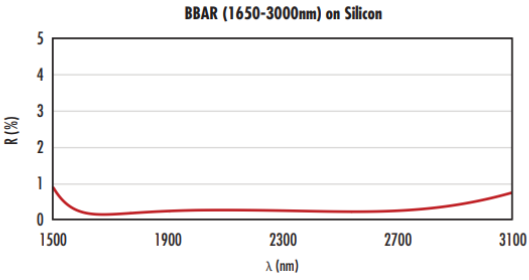
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- 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/cm³ 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



Compatible Mounts

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