

TECHSPEC[®] 25mm Dia. x 2.0mm Thickness 1.65-3μm Coated Silicon Window



TECHSPEC Silicon (Si) Windows

Stock **#17-198** **1 In Stock**

-

1

+

£172⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-10	£172.00 each
Qty 11-25	£152.00 each
Qty 26-49	£143.20 each
Need More?	Request Quote

i Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Protective Window

Type:

Physical & Mechanical Properties

Protective as needed

Bevel:

Clear Aperture CA (mm):

22.50	
	Diameter (mm):
25.00 +0.0/-0.1	
	Thickness (mm):
2.00 ±0.1	
	Edges:
Fine Ground	
	Knoop Hardness (kg/mm²):
1,150.00	
	Parallelism (arcmin):
<3	
	Poisson's Ratio:
0.27	
	Young's Modulus (GPa):
140	

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

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

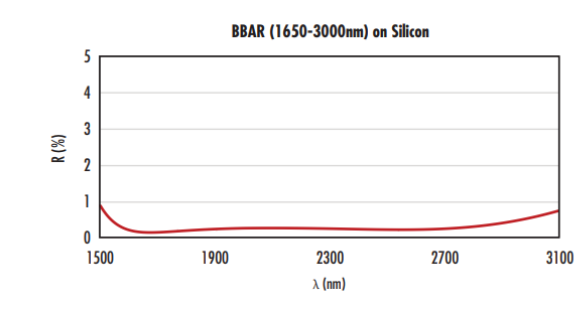
Regulatory Compliance	
	RoHS 2015:
Compliant	
	Certificate of Conformance:
View	
	Reach 235:
Compliant	

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



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
