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TECHSPEC® 25mm Dia. x 1.0mm Thickness 1.65-3µm Coated Silicon Window



TECHSPEC Silicon (Si) Windows

Stock #17-197 **1 In Stock**

⊖ 1 ⊕ **S\$301⁰⁰**

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Volume Pricing	
Qty 1-10	S\$301.00 each
Qty 11-25	S\$266.00 each
Qty 26-49	S\$250.60 each
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Product Downloads

General

Protective Window **Type:**

Physical & Mechanical Properties

22.50 **Clear Aperture CA (mm):**

25.00 +0.0/-0.1 **Diameter (mm):**

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

Optical Properties

BBAR (1650-3000nm)	Coating:
Silicon (Si)	Substrate: <input type="checkbox"/>
3.422 @ 5μm	Index of Refraction (n_d):
60-40	Surface Quality:
R _{avg} <1% @ 1650 - 3000nm R _{abs} <2% @ 1650 - 3000nm	Coating Specification:
1650 - 3000	Wavelength Range (nm):
1λ	Surface Flatness (P-V):

Material Properties

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

Regulatory Compliance

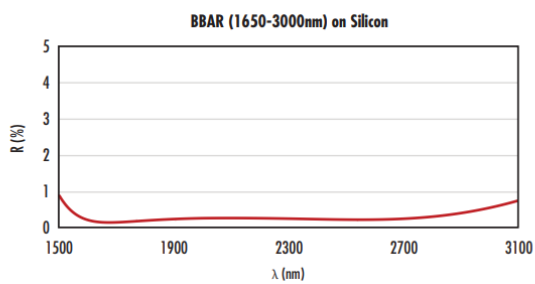
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

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

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