

**TECHSPEC® 25.4mm Dia. x 1mm Thickness 1.65-3µm Coated Silicon Window**



TECHSPEC Silicon (Si) Windows

Stock **#20-028** **6 In Stock**

⊖ 1 ⊕ ₹14,450

**ADD TO CART**

Volume Pricing	
Qty 1-10	₹14,450 each
Qty 11-25	₹12,763 each
Qty 26-49	₹12,029 each
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**SPECIFICATIONS**

**General**

Protective Window **Type:**

**Physical & Mechanical Properties**

Protective as needed	<b>Bevel:</b>
90.00	<b>Clear Aperture (%):</b>
22.86	<b>Clear Aperture CA (mm):</b>
25.40 +0.0/-0.1	<b>Diameter (mm):</b>
1.00 ±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

BBAR (1650-3000nm)	<b>Coating:</b>
R <sub>avg</sub> <1% @ 1650 - 3000nm R <sub>abs</sub> <2% @ 1650 - 3000nm	<b>Coating Specification:</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>
1650 - 3000	<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

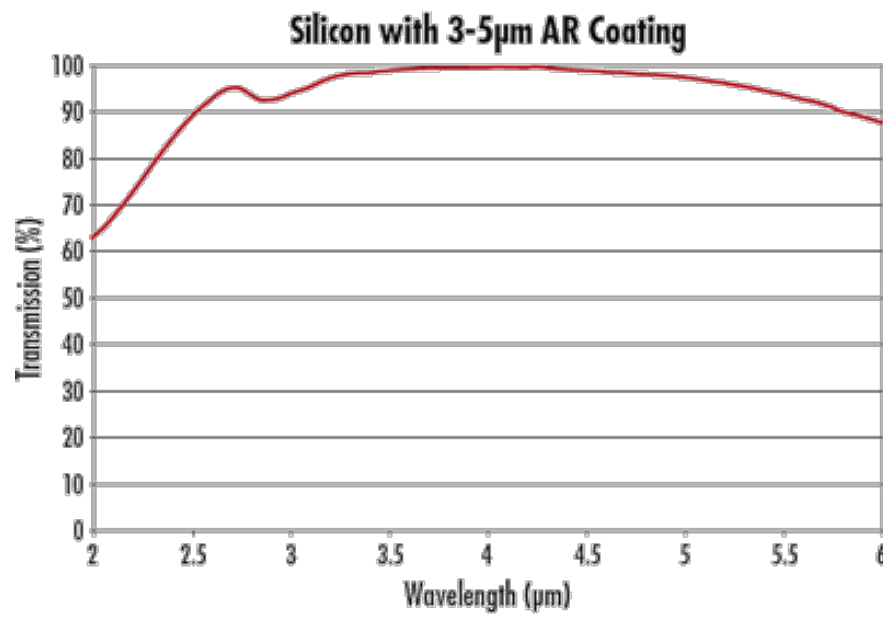
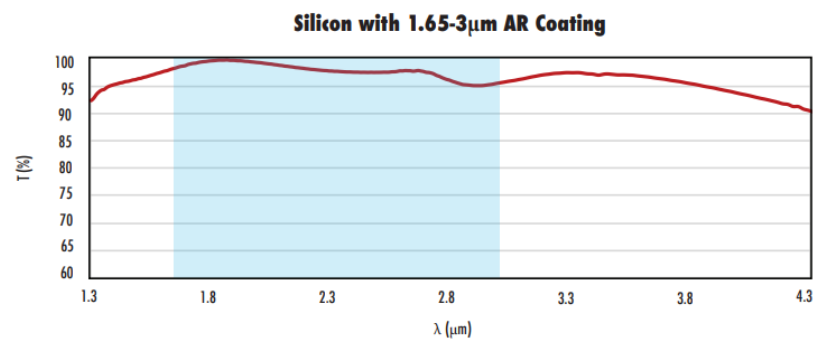
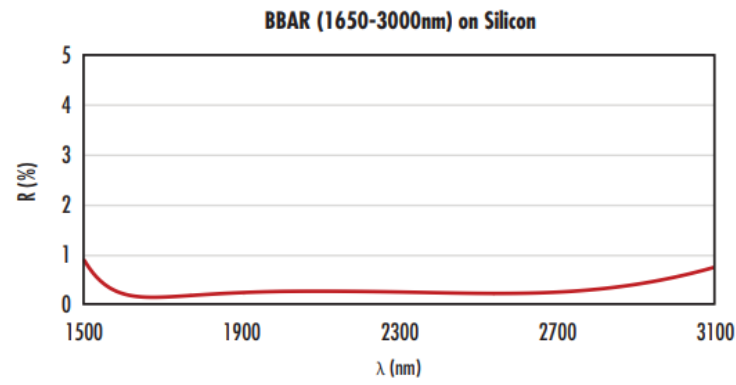
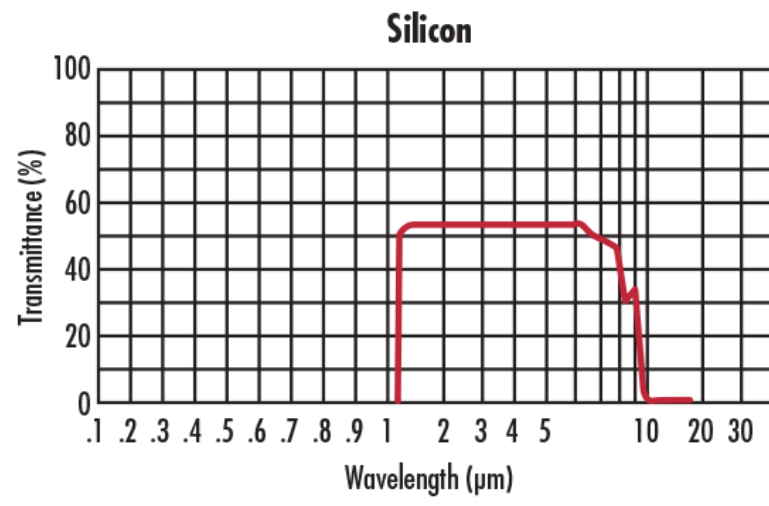
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 235:</b>

## 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