

TECHSPEC<sup>®</sup> 12.5mm Dia. x 2.0mm Thickness 1.65-3μm Coated Silicon Window



TECHSPEC Silicon (Si) Windows

Stock **#17-196** **2 In Stock**

-

1

+

C\$232<sup>40</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-10       | C\$232.40 each                |
| Qty 11-25      | C\$204.40 each                |
| Qty 26-49      | C\$194.60 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                          |                         |
|----------------------------------|-------------------------|
| Protective Window                | Type:                   |
| Physical & Mechanical Properties |                         |
| 11.25                            | Clear Aperture CA (mm): |
| 12.50 +0.0/-0.1                  | Diameter (mm):          |

|                      |                        |
|----------------------|------------------------|
| 2.00 ±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 <sub>d</sub> ): |
| 60-40       | Surface Quality:                       |

|                                                                              |                        |
|------------------------------------------------------------------------------|------------------------|
| R <sub>avg</sub> <1% @ 1650 - 3000nm<br>R <sub>abs</sub> <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 <sup>-6</sup> /°C): |

Regulatory Compliance

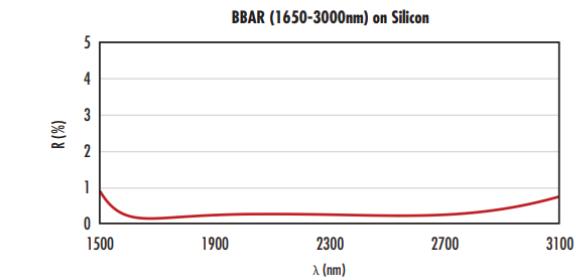
|           |                             |
|-----------|-----------------------------|
| Compliant | RoHS 2015:                  |
| View      | Certificate of Conformance: |
| Compliant | Reach 235:                  |

## 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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