

TECHSPEC® 50.8mm Dia. x 2mm Thickness 3-5µm Coated Silicon Window



TECHSPEC Silicon (Si) Windows

Stock #20-040 **CLEARANCE** 7 In Stock

A\$328TM ~~A\$657.55~~

ADD TO CART

Volume Pricing	
Qty 1-10	A\$657.55 A\$328.78 each
Qty 11-25	A\$580.10 A\$290.05 each
Qty 26-49	A\$548.78 A\$274.39 each
Need More?	Request Quote

Product Downloads

SPECIFICATIONS

General

Type: Protective Window

Physical & Mechanical Properties

Protective as needed	Bevel:
90.00	Clear Aperture (%):
45.72	Clear Aperture CA (mm):
50.80 +0.0/-0.1	Diameter (mm):
2.00 ±0.1	Thickness (mm):
Fine Ground	Edges:
1,150.00	Knoop Hardness (kg/mm²):
<3	Parallelism (arcmin):
0.27	Poisson's Ratio:
140	Young's Modulus (GPa):

Optical Properties

BBAR (3000-5000nm)	Coating:
R _{avg} <3.0% @3 - 5μm	Coating Specification:
3.422 @5μm	Index of Refraction (n_d):
Silicon (Si)	Substrate:
1.5λ	Surface Flatness (P-V):
60-40	Surface Quality:
3000 - 5000	Wavelength Range (nm):

Material Properties

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

Regulatory Compliance

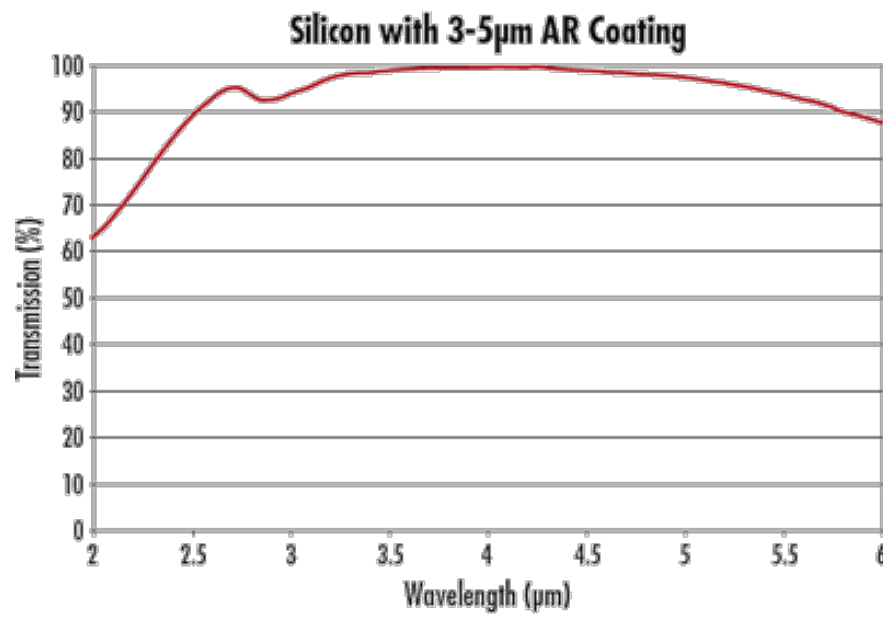
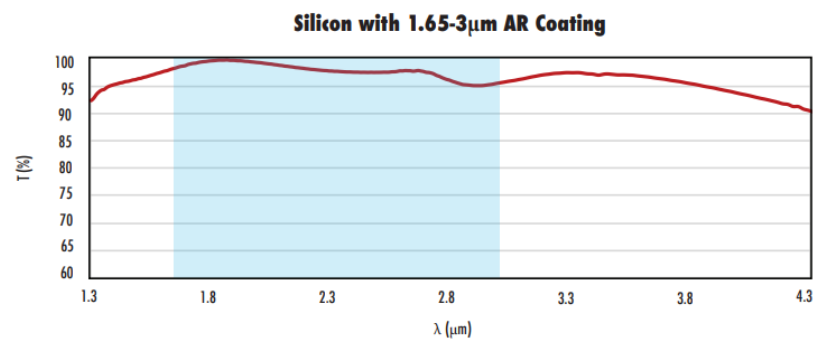
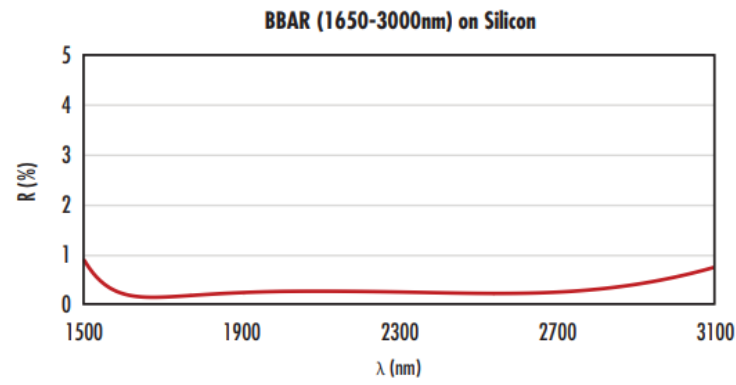
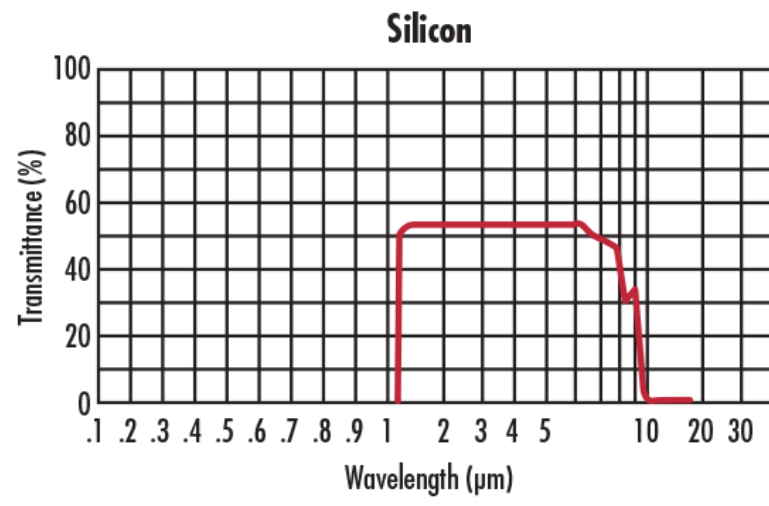
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	REACH 241:

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