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TECHSPEC® Silicon (Si) Windows


- Transmission from 1.2 - 7 μ m
- Available Uncoated or AR Coated for 1.65 - 5 μ m
- Ideal for Weight Sensitive Applications

Common Specifications

Physical & Mechanical Properties

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

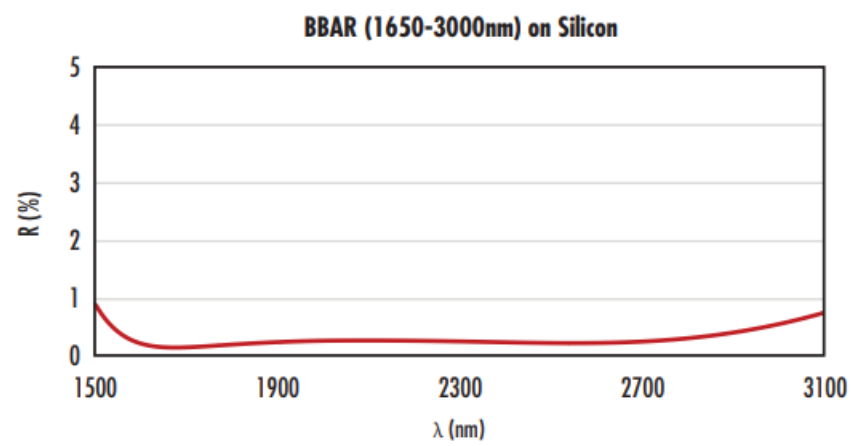
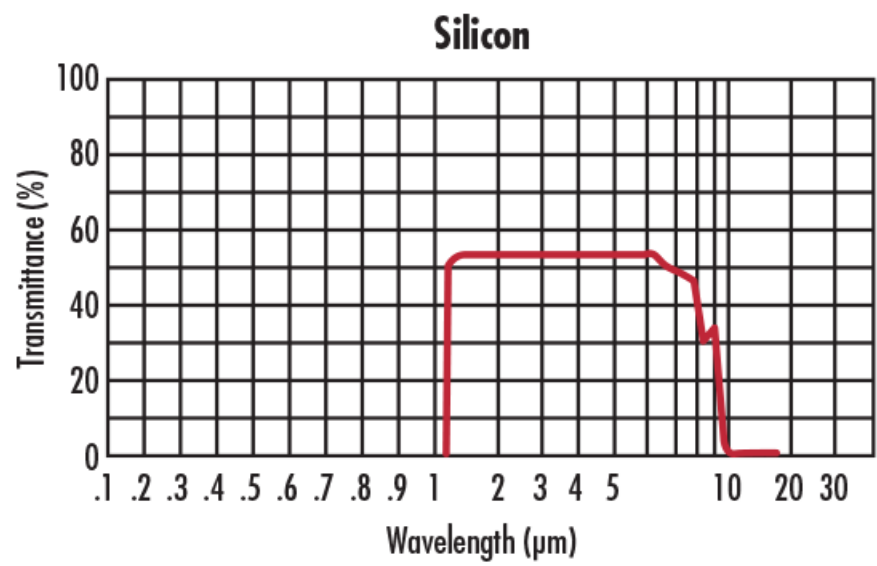
Optical Properties

Index of Refraction (n_d):	3.422 @ 5 μ m	Substrate:	Silicon (Si)
Surface Quality:	60-40		

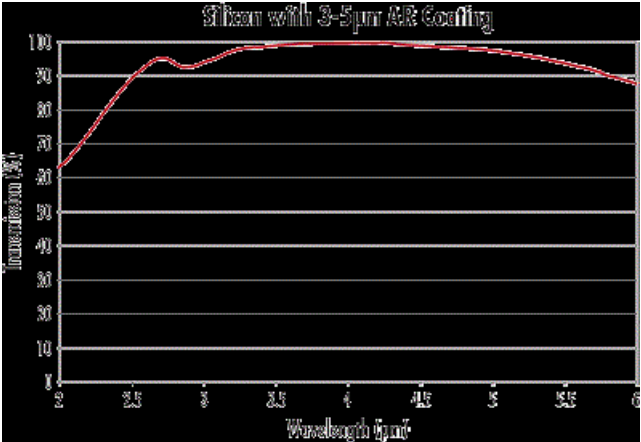
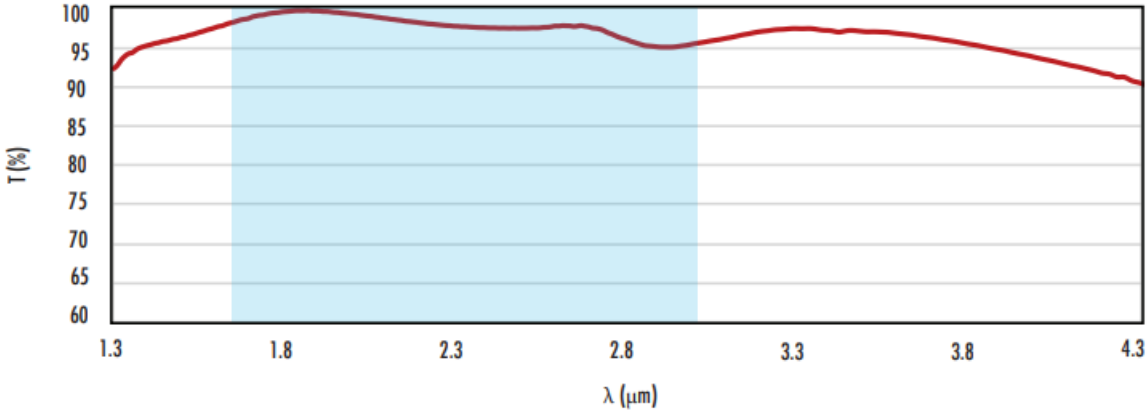
Material Properties

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

Technical Information



Silicon with 1.65-3μm AR Coating



Products

Dia. (mm)	Thickness (mm)	Coating	Stock Number	Price	Buy
10.00	1.50	Uncoated	#68-521	S\$180.60 Volume Pricing	5 In Stock
10.00	1.50	BBAR (1650-3000nm)	#17-195	S\$217.00 Volume Pricing	5 In Stock
10.00	1.50	BBAR (3000-5000nm)	#47-940	S\$229.60 Volume Pricing	20+ In Stock
12.50	2.00	Uncoated	#68-522	S\$197.40 Volume Pricing	13 In Stock
12.50	2.00	BBAR (1650-3000nm)	#17-196	S\$232.40 Volume Pricing	2 In Stock
12.50	2.00	BBAR (3000-5000nm)	#47-941	S\$245.00 Volume Pricing	20+ In Stock
12.70	2.00	Uncoated	#20-017	S\$197.40 Volume Pricing	16 In Stock
12.70	2.00	BBAR (1650-3000nm)	#20-027	S\$232.40 Volume Pricing	Contact Us
12.70	2.00	BBAR (3000-5000nm)	#20-034	S\$288.40 Volume Pricing	3 In Stock
25.00	1.00	Uncoated	#68-523	S\$245.00 Volume Pricing	9 In Stock
25.00	1.00	BBAR (1650-3000nm)	#17-197	S\$301.00 Volume Pricing	1 In Stock
25.00	1.00	BBAR (3000-5000nm)	#68-524	S\$329.00 Volume Pricing	Contact Us
25.00	2.00	Uncoated	#68-525	S\$245.00 Volume Pricing	16 In Stock
25.00	2.00	BBAR (1650-3000nm)	#17-198	S\$301.00 Volume Pricing	1 In Stock

25.00	2.00	BBAR (3000-5000nm)	#68-526	S\$329.00 Volume Pricing	11 In Stock
25.00	3.00	Uncoated	#68-527	S\$245.00 Volume Pricing	4 In Stock
25.00	3.00	BBAR (1650-3000nm)	#17-199	S\$301.00 Volume Pricing	7 In Stock
25.00	3.00	BBAR (3000-5000nm)	#47-942	S\$329.00 Volume Pricing	2 In Stock
25.40	1.00	Uncoated	#20-018	S\$245.00 Volume Pricing	20+ In Stock
25.40	1.00	BBAR (1650-3000nm)	#20-028	S\$301.00 Volume Pricing	5 In Stock
25.40	1.00	BBAR (3000-5000nm)	#20-035	S\$329.00 Volume Pricing	6 In Stock

[#20-019 Clearance](#)



Clearance

25.40	2.00	Uncoated	Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.	S\$245.00 Volume Pricing	13 In Stock
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[#20-029 Clearance](#)



Clearance

25.40	2.00	BBAR (1650-3000nm)	Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.	S\$301.00 Volume Pricing	2 In Stock
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25.40	3.00	Uncoated	#20-020	S\$245.00 Volume Pricing	6 In Stock
25.40	3.00	BBAR (1650-3000nm)	#20-030	S\$301.00 Volume Pricing	7 In Stock
25.40	3.00	BBAR (3000-5000nm)	#20-038	S\$329.00 Volume Pricing	10 In Stock
30.00	2.00	Uncoated	#33-135	S\$336.00 Volume Pricing	10 In Stock
30.00	2.00	BBAR (1650-3000nm)	#17-200	S\$401.80 Volume Pricing	2 In Stock
30.00	2.00	BBAR (3000-5000nm)	#33-136	S\$449.40 Volume Pricing	7 In Stock
50.00	1.00	Uncoated	#68-528	S\$453.60 Volume Pricing	7 In Stock
50.00	1.00	BBAR (1650-3000nm)	#17-201	S\$537.60 Volume Pricing	4 In Stock
50.00	1.00	BBAR (3000-5000nm)	#68-529	S\$610.40 Volume Pricing	10 In Stock
50.00	2.00	Uncoated	#68-530	S\$453.60 Volume Pricing	Contact Us
50.00	2.00	BBAR (1650-3000nm)	#17-202	S\$537.60 Volume Pricing	7 In Stock

50.00	2.00	BBAR (3000-5000nm)	#68-531	S\$610.40 Volume Pricing	13 In Stock
50.00	3.00	Uncoated	#68-532	S\$453.60 Volume Pricing	20+ In Stock
50.00	3.00	BBAR (1650-3000nm)	#17-203	S\$537.60 Volume Pricing	17 In Stock
50.00	3.00	BBAR (3000-5000nm)	#47-943	S\$610.40 Volume Pricing	15 In Stock
50.80	1.00	Uncoated	#20-023	S\$453.60 Volume Pricing	20+ In Stock
50.80	1.00	BBAR (1650-3000nm)	#20-031	S\$537.60 Volume Pricing	4 In Stock
50.80	1.00	BBAR (3000-5000nm)	#20-039	S\$610.40 Volume Pricing	3 In Stock

[#20-024 Clearance](#)



Clearance

50.80	2.00	Uncoated	Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.	S\$453.60 Volume Pricing	20+ In Stock
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[#20-032 Clearance](#)



Clearance

50.80	2.00	BBAR (1650-3000nm)	Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.	S\$537.60 Volume Pricing	5 In Stock
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[#20-040 Clearance](#)



Clearance

50.80	2.00	BBAR (3000-5000nm)	Availability is limited, so buy before these products disappear. Sorry, we cannot accept returns. Receive up to 80% off select products.	S\$610.40 Volume Pricing	5 In Stock
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50.80	3.00	Uncoated	#20-026	S\$453.60 Volume Pricing	20+ In Stock
50.80	3.00	BBAR (1650-3000nm)	#20-033	S\$537.60 Volume Pricing	1 In Stock
50.80	3.00	BBAR (3000-5000nm)	#20-041	S\$610.40 Volume Pricing	9 In Stock



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