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TECHSPEC® 75mm Diameter x 6.5mm Thickness, Uncoated, BOROFLOAT® Window

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TECHSPEC BOROFLOAT Borosilicate Windows

Stock **#43-894** **20+ In Stock**

A\$60⁰⁰

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Volume Pricing	
Qty 1-5	A\$60.00 each
Qty 6-25	A\$48.00 each
Qty 26-99	A\$43.20 each
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General

Protective Window Type:

Glass Type of Window:

Physical & Mechanical Properties

Clear Aperture CA (mm):

67.50

Diameter (mm):

75.00 ±0.5

Thickness (mm):

6.50 ±0.2

Bevel:

Protective as needed

Clear Aperture (%):

≥90

Edges:

Ground

Poisson's Ratio:

0.20

Young's Modulus (GPa):

64

Knoop Hardness (kg/mm²):

480.00

Optical Properties

Coating:

Uncoated

Substrate:

BOROFLOAT®

Index of Refraction (n_d):

1.472

Surface Quality:

80-50

Transmission (%):

90

Abbe Number (v_d):

65.41

Wavelength Range (nm):

350 - 2000

Surface Flatness (P-V):

4 - 6λ

Material Properties

Density (g/cm³):

2.23

Transformation Temperature (°C):

525

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):

3.25 (+20 to +300°C)

Environmental & Durability Factors

Operating Temperature (°C):

1 hour @ 500; >100 hours @ 450

Resistance to Temperature Difference (K):

Short Term, 1 hr: 110K
1 - 100 hrs: 90K
Long Term, >100 hrs: 80K

Thermal Shock (K):

Up to 4mm Thick: 175K
4 - 6mm Thick: 160K
6 - 15mm Thick: 150K

Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 247:

[Compliant](#)

Product Details

- Low Coefficient of Thermal Expansion
- Visible to Near Infrared Transmission
- High Resistance to Thermal Shock

TECHSPEC® BOROFLOAT® Borosilicate Windows are ideal for high temperature and harsh environment applications. The windows have a low coefficient of thermal expansion of 3.25 (+20 to +300°C). TECHSPEC® BOROFLOAT® Borosilicate Windows feature visible to near infrared transmission. Unlike common borosilicate that is drawn flat, BOROFLOAT® is produced by a float technique that yields superior surface flatness — typically 4 - 6λ per inch. BOROFLOAT® is about three times more resistant to thermal shock than standard soda lime glass.

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Technical Information



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Compatible Mounts