

TECHSPEC®

50mm Dia., 5mm Thick NIR II Coated, 1λ Fused Silica Window



Stock #19-900

3-5 DAYS

-

1

+

A\$224.00

ADD TO CART

Qty 1-5

A\$224.00

Qty 6+

A\$179.20

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Abbe Number (v_d):
67.8

Bevel:
Protective as needed

Clear Aperture (%):
90

Clear Aperture CA (mm):

45.00
Diameter (mm): 50.00 +0.00/-0.20
Thickness (mm): 5.00 ±0.38
Coating: NIR II (750-1550nm)
Coating Specification: R _{abs} ≤1.5% @ 750 - 800nm R _{abs} ≤1.0% @ 800 - 1550nm R _{avg} ≤0.7% @ 750 - 1550nm
Coefficient of Thermal Expansion CTE (10⁻⁶/°C): 0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)
Density (g/cm³): 2.20
Edges: Fine Ground
Index of Refraction n_d: 1.458
Knoop Hardness (kg/mm²): 522
Parallelism (arcmin): <5
Poisson's Ratio: 0.16
Substrate: Fused Silica (Corning 7980)
Surface Quality: 60-40
Transmitted Wavefront, P-V: 1λ
Type: Protective Window
Wavelength Range (nm): 750 - 1550
Young's Modulus (GPa): 73
Damage Threshold, By Design: ☐ 8 J/cm² @ 1064nm, 10ns

Regulatory Compliance

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