

TECHSPEC®

50mm Dia., 2mm Thick MgF₂ Coated, 1λ Fused Silica Window



Stock **#19-880** ☐ In Stock

-

1

+

C\$175.00

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Qty 1-5
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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): 2.00 ±0.38
Coating: MgF ₂ (400-700nm)
Coating Specification: R _{avg} ≤1.75% @400 - 700nm
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): 400 - 700
Young's Modulus (GPa): 73
Damage Threshold, By Design: ☐ 10 J/cm² @532nm, 10ns

Regulatory Compliance

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