

TECHSPEC® 50mm Dia. x 1mm Thick, 8-12µm AR Coated & DLC Coated, Ge Window



TECHSPEC® Diamond-Like Carbon (DLC) Coated Germanium Windows

Stock **#13-797** [CONTACT US](#)

⊖ 1 ⊕ **S\$1,603.70**

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Qty 11+
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Bevel:
Protective as needed

Clear Aperture (%):
90

Clear Aperture CA (mm):
45.00

Diameter (mm): 50.00 +0.0/-0.1
Thickness (mm): 1.00 ±0.1
Coating: S1: DLC Coating S2: BBAR (8000-12000nm)
Coating Specification: AR: R _{avg} ≤0.5% @ 8000 - 12000nm
Edges: Fine Ground
Knoop Hardness (kg/mm²): 780
Parallelism (arcmin): <1
Substrate: Germanium (Ge)
Surface Flatness (P-V): λ/10 @ 10.6µm
Surface Quality: 60-40
Type: Protective Window
Wavelength Range (nm): 8000 - 12000
Coating Abrasion: AR: Moderate, per MIL-C-48497A Paragraph 4.5.3.3 DLC: Severe, per MIL-C-675C Paragraph 4.5.10
Coating Adhesion: AR: per MIL-C-48497A Paragraph 4.5.3.1 DLC: per MIL-M-13508C Paragraph 4.4.6
Coating Humidity: AR: per MIL-C-48497A Paragraph 4.5.3.2 DLC: ≥24 Hours per MIL-C-675C paragraph 4.5.8
Coating Salt Solubility: AR: N/A DLC: ≥24 Hours Immersion per MIL-C-675C paragraph 4.5.7
Coating Salt Spray: AR: N/A ≥24 Hours per MIL-C-675C paragraph 4.5.9
Coating Solubility and Cleaning: AR: per MIL-C-48497A Paragraph 4.5.4.2 DLC: N/A
Coating Temperature (°F): AR: -80 to +160 per MIL-C-48497A Paragraph 4.5.4.1 DLC: -80 to +160 per MIL-M-13508C Paragraph 4.4.4
Coating Wiper Durability: AR: N/A DLC: ≥5,000 Wpes of Sand/Slurry per TS-1888
Note: Arrow on substrate edge points towards DLC coated surface

Regulatory Compliance

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