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TECHSPEC® 50mm Dia. 400 - 750nm Broadband $\lambda/4$ Mirror



Broadband Dielectric $\lambda/4$ Mirrors

Stock **#70-676** **6 In Stock**

⊖ 1 ⊕ **S\$267⁰⁰**

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Volume Pricing	
Qty 1-5	S\$267.40 each
Qty 6-25	S\$212.80 each
Qty 26-49	S\$200.20 each
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General

Flat Mirror **Type:**

Physical & Mechanical Properties

50.00 +0.00/-0.25 **Diameter (mm):**

4.00 ±0.25 **Thickness (mm):**

Commercial Polish	Back Surface:
90	Clear Aperture (%):
45.00	Clear Aperture CA (mm):
Ground	Edges:
5	Parallelism (arcmin):
Optical Properties	
Dielectric	Coating Type:
Dielectric Mirror (400-750nm)	Coating:
$\lambda/4$ (typical)	Surface Flatness (P-V):
400 - 750	Wavelength Range (nm):
BOROFLOAT®	Substrate: <input type="checkbox"/>
0-45	Angle of Incidence (°):
Coating Specification: R _{avg} >98% @ 400 - 750nm (0-45°, All Polarizations) R _{avg} >99% @ 400 - 750nm (0-45°, S-Polarizations)	
60-40	Surface Quality:
Damage Threshold, By Design: <input type="checkbox"/> 0.5 J/cm ² @ 532nm, 20ns, 20Hz	
Regulatory Compliance	
View	Certificate of Conformance:

Product Details

- Enhanced Reflectivity and LDT over Metallic Coatings
- Average Reflectivity >99% from 400 – 750nm
- Designed for all Polarization States at 0 – 45° AOI
- $\lambda/10$ Versions Available

TECHSPEC® Broadband Dielectric $\lambda/4$ Mirrors feature a high laser damage threshold of 0.5 J/cm² @ 532nm, 20ns pulse, at 20Hz as well as a >99% reflection from 400 – 750nm across all polarization states. Constructed from highly durable BOROFLOAT® substrates, these mirrors feature outstanding thermal and high chemical durability making them ideal for high temperature and harsh environment applications. TECHSPEC® Broadband Dielectric $\lambda/4$ Mirrors are available in a variety of diameters from 12.5 - 50mm. A low-cost alternative to our precision polished [TECHSPEC Broadband Dielectric \$\lambda/10\$ Mirrors](#), these mirrors are ideal for spectroscopy, microscopy, and general laboratory use such as beam steering or reflection applications utilizing multiple laser sources.

Note: Surface Flatness is measured pre-coating and deviations may appear after the coating has been applied. For applications where surface flatness is critical it is recommended it is recommended to use the [TECHSPEC® Broadband Dielectric \$\lambda/10\$ Mirrors](#).