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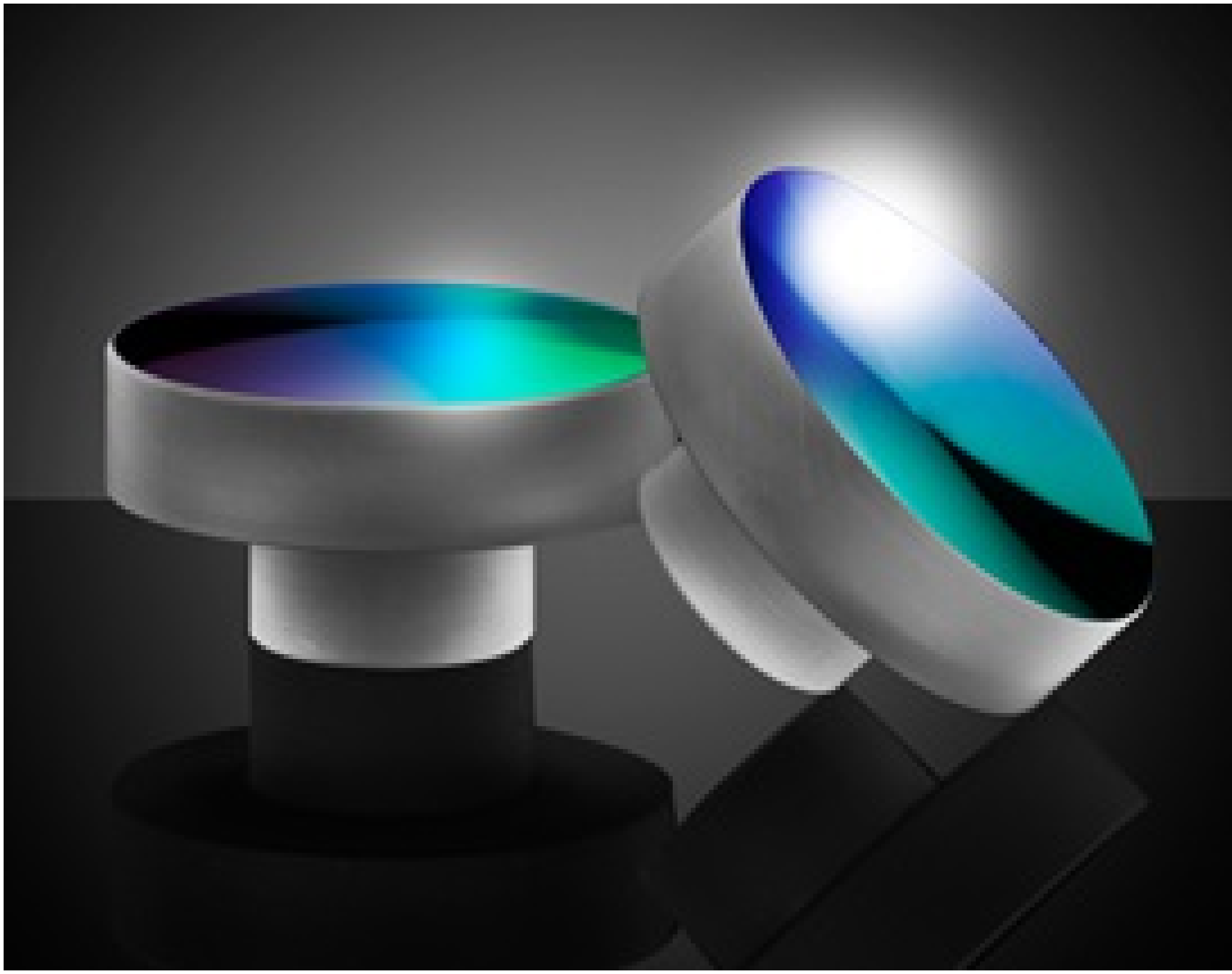
TECHSPEC® 25mm Dia., 355nm, Stemmed Laser Mirror



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General

Type:

Stemmed Mirror

Compatible Kinematic Mount:

#58-853

Physical & Mechanical Properties

Thickness (mm):

13.00 ±0.20

Clear Aperture CA (mm):
22.50

Diameter (mm):
25.00 +0.00/-0.10

Clear Aperture (%):
90.00

Back Surface:
Commercial Polish

Edges:
Ground, protective bevel as needed

Stem Diameter (mm):
12.50 +0.00/-0.10

Stem Length (mm):
6.50 ±0.20

Optical Properties

Substrate:
Fused Silica (Corning 7980)

Surface Quality:
10-5

Coating:
Laser Mirror (355nm)

Design Wavelength DWL (nm):
355

Surface Flatness (P-V):
λ/10

Coating Specification:
R_{abs} >99.8% @ 355nm

Coating Type:
Dielectric

Damage Threshold, Reference:
7.5J/cm^2 @ 20ns, 20Hz @ 355nm

Damage Threshold, Pulsed:
7.5J/cm^2 @ 20ns, 20Hz @ 355nm

Regulatory Compliance

Certificate of Conformance:
View

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our custom manufacturing capabilities or submit an inquiry here.

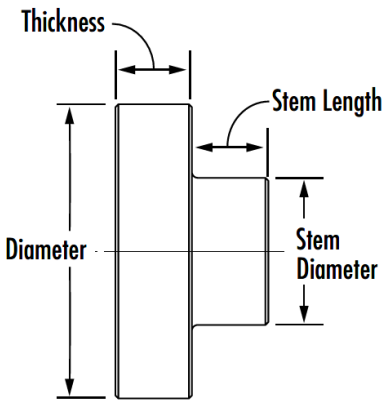
Product Details

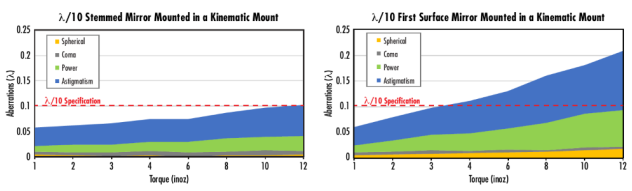
- Stemmed Design Reduces Stress on Mirror Surface when Mounted by Stem
- >99% Reflectivity at Standard Laser Wavelengths
- 10-5 Surface Quality for Reduced Scatter in Sensitive Laser Applications
- TECHSPEC® Broadband Dielectric and Metallic Coated Stemmed Mirrors Also Available

TECHSPEC® Stemmed Laser Mirrors provide low mounting stress on highly reflective, laser line mirrors. Designed to be mounted to TECHSPEC® Kinematic Circular Optical Mounts and E-Series Kinematic Optical Mirror Mounts, all contact between the mirror and the kinematic mount is through the stem, reducing the stress imparted on the optical surface of the mirror. Due to their stress-reducing design and monolithic fused silica construction, these mirrors provide excellent thermal stability and improved surfaced flatness compared to traditionally mounted λ/10 flat mirrors. TECHSPEC® Stemmed Laser Mirrors are available at common laser wavelengths, making them ideal for laboratories and integration in laser systems.

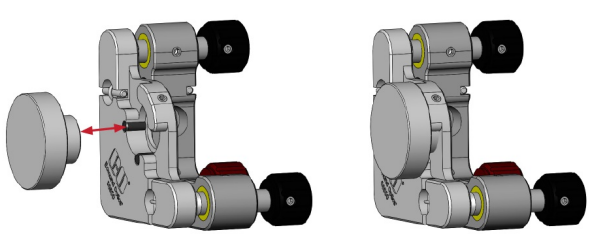
Note: Contact us for custom options.

Technical Information





A comparison of the aberrations introduced to a λ/10 Stemmed Mirror and a λ/10 First Surface Mirror when mounted in a kinematic mount. As shown, a Stemmed Mirror stays within λ/10 specification up to 12 inoz of torque (“hand-tight”) while a First Surface Mirror becomes out of specification with a surface flatness of λ/5.



Stemmed Mirrors are mounted to kinematic mounts by a stem on their back surface, resulting in no contact with the edges of the mirror surface.

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