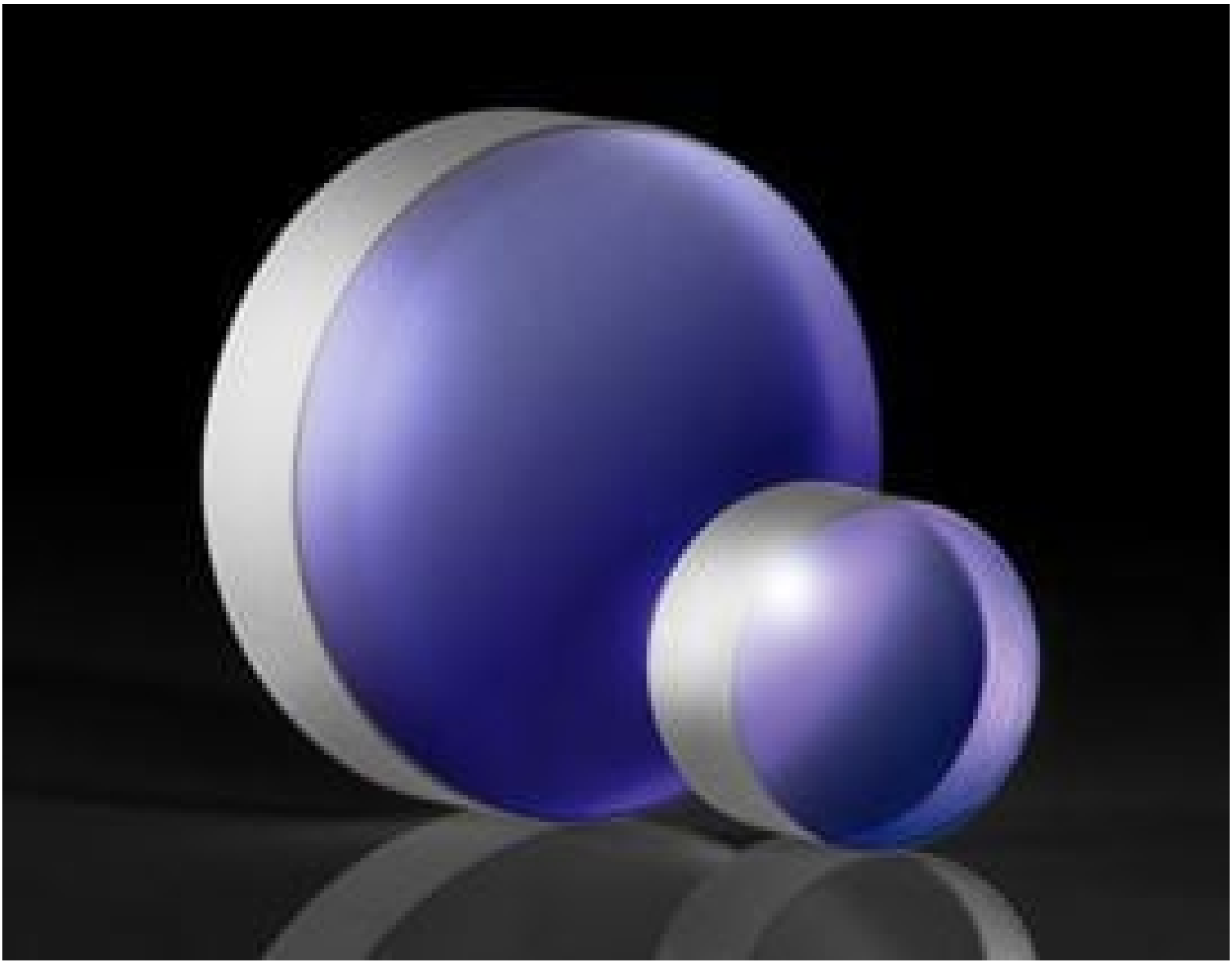
25.4mm Dia., 6.35mm Thick, Fused Silica 800nm Ti:Sapphire Mirror, 45 Deg AOI



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SPECIFICATIONS

General

Type:
Ti:Sapphire Laser Mirror

Physical & Mechanical Properties

Diameter (mm):

25.40 +0.00/-0.10

Clear Aperture CA (mm):
22.86

Parallelism (arcmin):
<3

Thickness (mm):
6.35 ±0.20

Edges:
Fine Ground

Optical Properties

Design Wavelength DWL (nm):
800

Wavelength Range (nm):
780 - 820

Substrate:
Fused Silica (Corning 7980)

Angle of Incidence (°):
45

Coating:
Laser Mirror (800nm)

Coating Specification:
R_{abs} S & P >99.80% @ 400nm @ 45° AOI
R_{avg} >99.5% @ 390 - 410nm @ 45° AOI

Surface Flatness (P-V):
λ/10

Surface Quality:
10-5

Regulatory Compliance

Certificate of Conformance:
View

PRODUCT DETAILS

- >99.8% Reflectivity at Ti:Sapphire Fundamental and Harmonic Frequencies
- 10-5 Surface Quality for Reduced Scatter in Laser Applications
- High Laser Damage Threshold

TECHSPEC® Ti:Sapphire Laser Line Mirrors provide >99.8% reflectivity for Ti:Sapphire laser fundamental and harmonic frequencies at both a 45° angle of incidence (AOI) and 0-45° AOI. These laser mirrors are designed with a fused silica substrate for excellent thermal stability and are coated for 800nm, 400nm, or 266nm which are the fundamental, second harmonic, and third harmonic respectively. To minimize scattering effects, these mirrors feature a high 10-5 surface quality and λ/10 surface flatness. TECHSPEC® Ti:Sapphire Laser Line Mirrors are ideal for a range of Ti:Sapphire laser applications such as multiphoton imaging, ultrafast spectroscopy, and cold micromachining.