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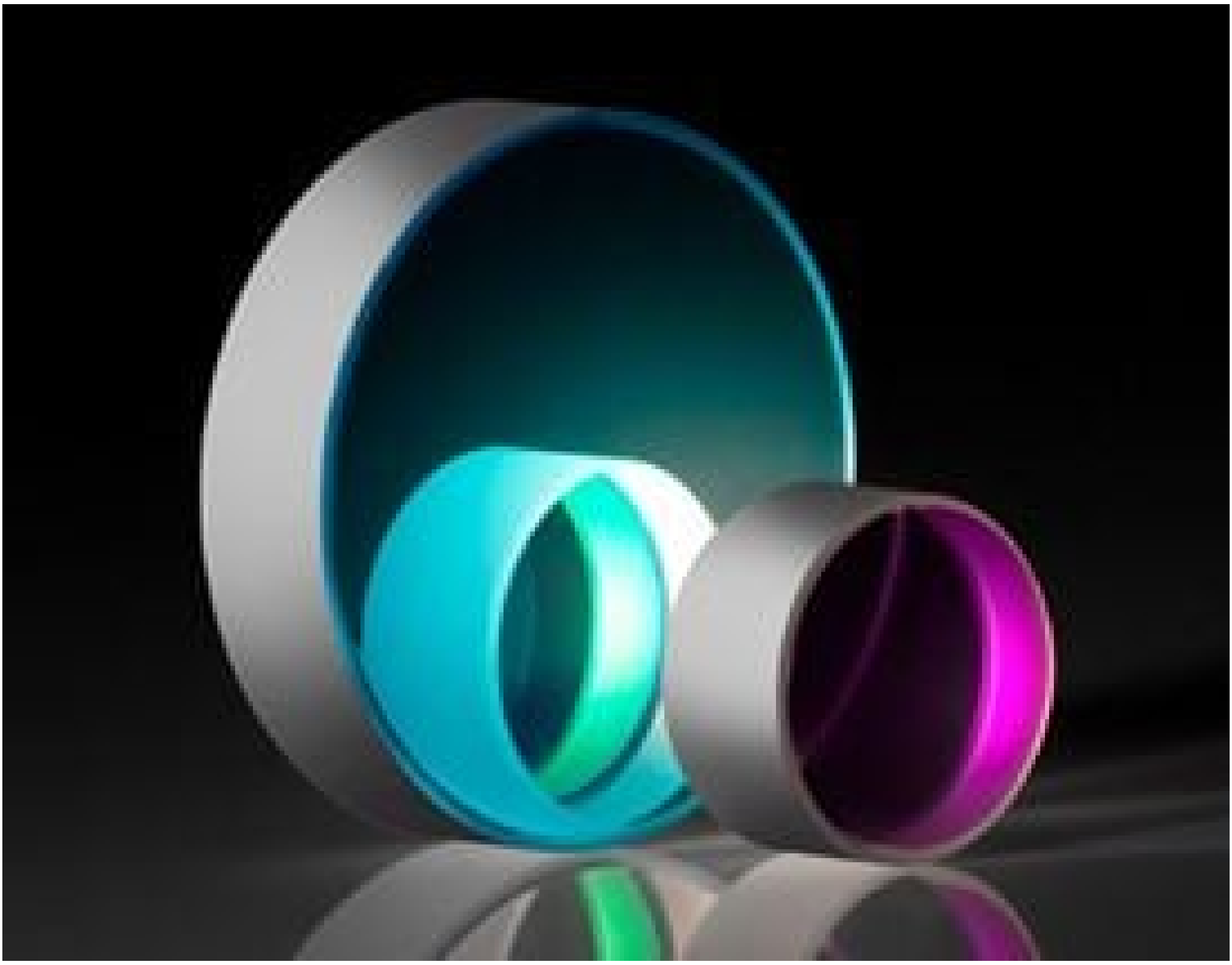
12.7mm Dia. UHR Broadband Dielectric Mirror, 400-750nm



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General

Type:

Flat Mirror

Physical & Mechanical Properties

Diameter (mm):

12.70 +0.00/-0.10

Clear Aperture CA (mm):

11.7

Edges:

Ground

Parallelism (arcmin):
<3

Thickness (mm):
6.35 ±0.20

Optical Properties

Surface Flatness (P-V):
λ/10

Substrate:
Fused Silica (Corning 7980)

Surface Quality:
10-5

Coating Specification:
R_{avg} >99.9% @ 400 - 750nm (45°, s-pol)
R_{avg} >99.8% @ 410 - 750nm (45°, p-pol)

Coating:
UHR Dielectric Mirror (400-750nm)

Coating Type:
Dielectric

Angle of Incidence (°):
45

Wavelength Range (nm):
400 - 750

Regulatory Compliance

Certificate of Conformance:
View

Product Details

- >99.8% Reflectivity over Broad Visible or NIR Wavelength Ranges
- 10-5 Surface Quality for Reduced Scatter in Sensitive Laser Applications
- λ/10 Surface Flatness

Ultra-High Reflectivity (UHR) Broadband Dielectric Mirrors are ideal for use with broadband laser or illumination sources in applications that require low reflection loss. These mirrors feature laser grade substrates with λ/10 surface flatness and 10-5 surface quality to minimize scattering effects. Coated with durable dielectric coatings, these mirrors are designed for >99.8% average reflectivity throughout the visible (400 - 750nm) or NIR (740 - 1100nm) spectra, independent of polarization. With a high-quality fused silica substrate, Ultra-High Reflectivity (UHR) Broadband Dielectric Mirrors feature a low coefficient of thermal expansion.

Coating Note: Coating designs measured and verified at 532, 632.8, and 1064nm via cavity ring-down spectroscopy (CRDS). Specs may not be verifiable on traditional spectrophotometer equipment.

Technical Information