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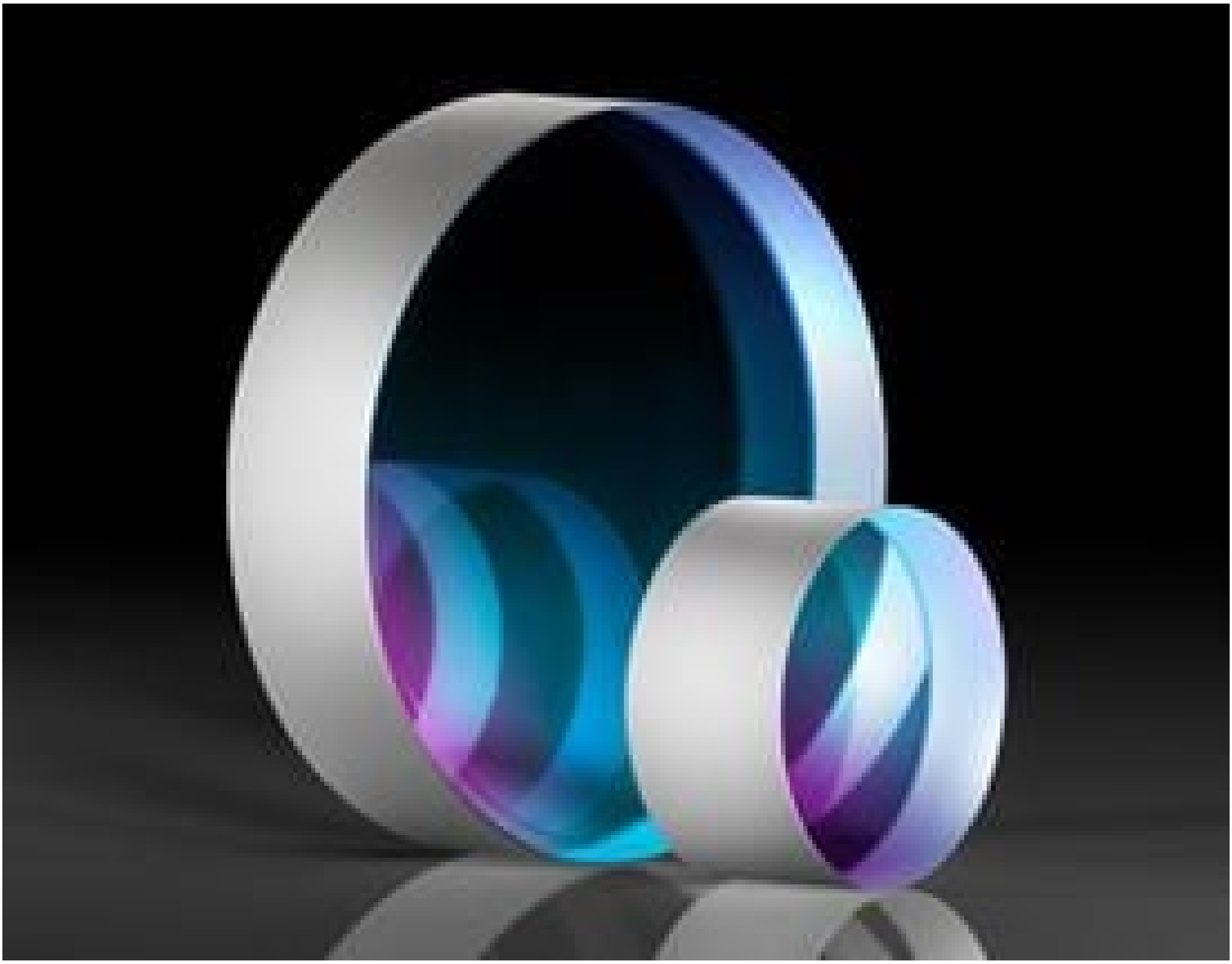
TECHSPEC® 1550nm, 12.7mm Dia. x 6.35mm Thickness, Ultrafast Laser Mirror



Stock **#26-841** **8 In Stock**

- 1 + **A$168**.00

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Volume Pricing	
Qty 1-5	**A$168.00** each
Qty 6-25	**A$149.60** each
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General

Type:

Laser Mirror

Physical & Mechanical Properties

Thickness (mm):

6.35 ±0.20

Diameter (mm):

12.70 +0.00/-0.10

Clear Aperture (%):

90

Back Surface:
Commercial Polish

Parallelism (arcmin):
<3

Optical Properties

Substrate:
Fused Silica (Corning 7980)

Surface Quality:
10-5

Angle of Incidence (°):
45

Coating:
Ultrafast (1510-1590nm)

Design Wavelength DWL (nm):
1550

Wavelength Range (nm):
1510 - 1590

Surface Flatness (P-V):
λ/8

Coating Specification:
$R_{(avg)}$ S & P >99.90% @ 1550nm @ 45° AOI
$R_{(avg)}$ >99.7% @ 1510 - 1590nm @ 45° AOI

Coating Type:
Dielectric

GDD Specification:
±20 fs^2 @ 1510 - 1590nm @ 45° AOI (s-pol)
±30 fs^2 @ 1530 – 1580nm @ 45° AOI (p-pol)

Environmental & Durability Factors

Durability:
MIL-PRF-13830B

Regulatory Compliance

Certificate of Conformance:
View

Custom

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

- GDD as Low as ±20fs^2 at Design Wavelength Range
- Greater than 99.9% Reflectivity
- Ideal for Ti:sapphire and Yb:doped Ultrafast Lasers

TECHSPEC® Low GDD Dielectric Ultrafast Laser Mirrors feature a multilayer dielectric coating on fused silica substrates for excellent reflectivity of greater than 99.9%, and low coefficient of thermal expansion, making them ideal for ultrafast beam transport applications. These mirrors have a group delay dispersion (GDD) of near zero at their design wavelength range, minimizing dispersion of the reflected beam. TECHSPEC® Low GDD Dielectric Ultrafast Laser Mirrors are ideal for utilizing the first and second harmonic of Ti:sapphire and Yb:doped lasers for applications such as laser machining and welding.

Note: Please contact us if your application requires a TECHSPEC Low GDD Ultrafast Mirror with a custom wavelength, angle, or size.

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