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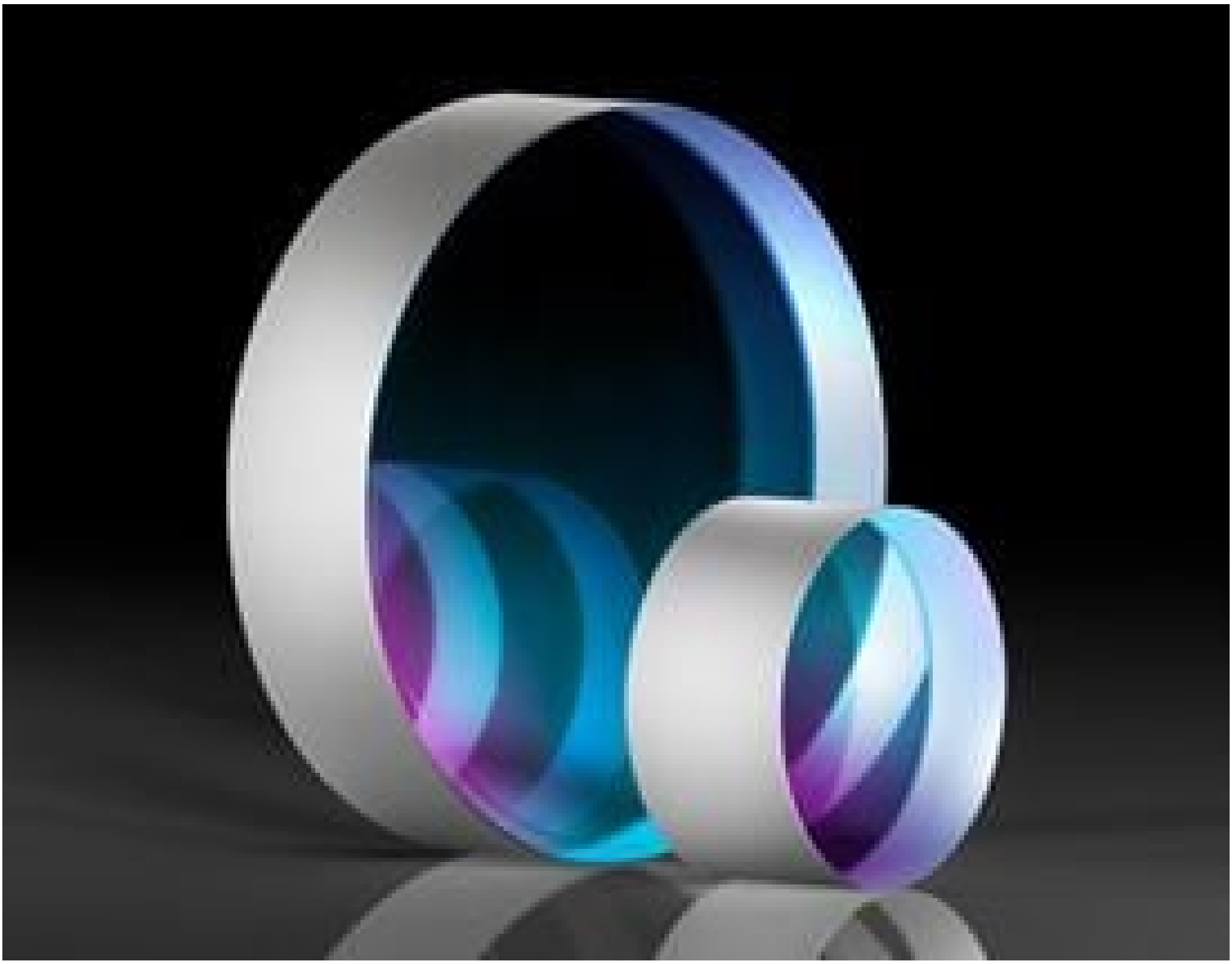
# TECHSPEC® 920nm, 25.4mm Dia. x 6.35mm Thickness, Ultrafast Laser Mirror



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| Qty 1-5 | **A$281.60** each |
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## General

**Type:**

Laser Mirror

## Physical & Mechanical Properties

**Thickness (mm):**

6.35 ±0.20

**Diameter (mm):**

25.40 +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 (870-970nm)

**Design Wavelength DWL (nm):**
920

**Wavelength Range (nm):**
870 - 970

**Surface Flatness (P-V):**
λ/8

**Coating Specification:**
$R_{(avg)}$ S & P >99.90% @ 920nm @ 45° AOI
$R_{(avg)}$ >99.7% @ 880 - 960nm @ 45° AOI

**Coating Type:**
Dielectric

**GDD Specification:**
±20 $fs^2$ @ 870 - 970nm @ 45° AOI (s-pol)
±20 $fs^2$ @ 900 - 940nm @ 45° AOI (p-pol)

## Environmental & Durability Factors

**Durability:**
MIL-PRF-13830B

## 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

- GDD as Low as ±20$fs^2$ 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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