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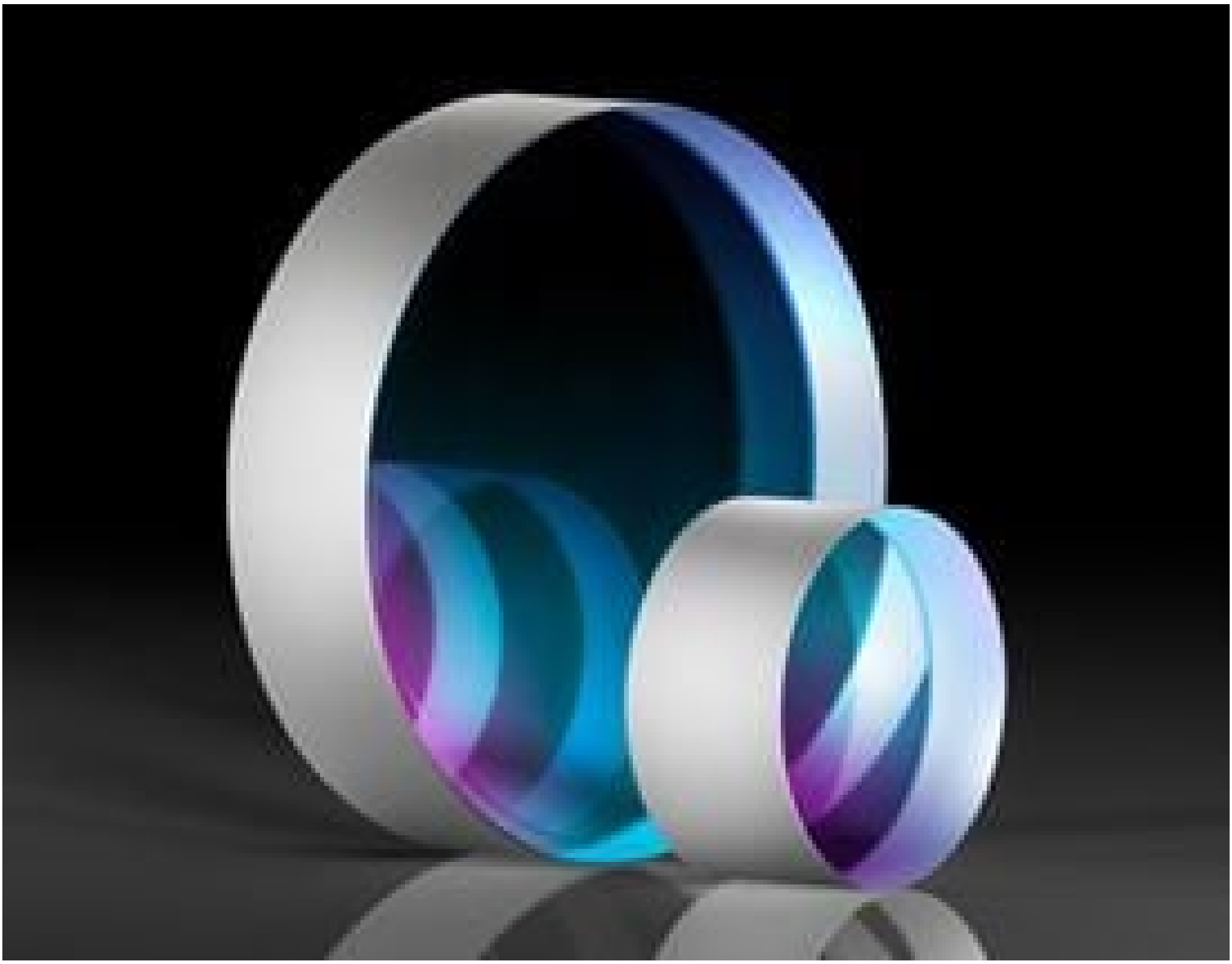
TECHSPEC® 320 - 370nm, 50.8mm Dia., Ultrafast Mirror



Stock **#12-465** **7 In Stock**

- 1 + **A$912**.00

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Qty 1-5	**A$912.00** each
Qty 6+	**A$808.00** each
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General

Type:
Laser Mirror

Typical Applications:
Yb:doped Lasers 3rd Harmonic

Physical & Mechanical Properties

Clear Aperture (%):
>80

Back Surface:
Commercial Polish

Diameter (mm):
50.80 +0.00/-0.10

Thickness (mm):
9.52 ±0.10

Parallelism (arcsec):
<10

Surface Roughness (□):
<5

Optical Properties

Surface Quality:
10-5

Reflection at DWL (%):
98.5

Coating Specification:
R_s >99.75% @ 320 - 370nm
R_p >99.5% @ 327 - 363nm

GDD Specification:
0 ±10fs^2 @ 320 - 370nm (s-pol), @ 330 - 360nm (p-pol)

Wavelength Range (nm):
320 - 370

Surface Flatness (P-V):
λ/8

Coating Type:
Dielectric

Coating:
Ultrafast (320-370nm)

Design Wavelength DWL (nm):
343

Angle of Incidence (°):
45

Substrate: □
Fused Silica (Corning 7980)

Damage Threshold, By Design: □
0.55 J/cm^2 @ 343nm, 180fs FWHM, S-polarization, 1 pulse (typical)
0.25 J/cm^2 @ 343nm, 180fs FWHM, S-polarization, 1000 pulses (typical)
0.37 J/cm^2 @ 343nm, 180fs FWHM, P-polarization, 1 pulse (typical)
0.22 J/cm^2 @ 343nm, 180fs FWHM, P-polarization, 1000 pulses (typical)
0.35 J/cm^2 @ 343 nm, 1 ps FWHM, 100 Hz, P-polarization, 1000 pulses

Regulatory Compliance

RoHS 2015:
Compliant

Reach 205:
Compliant

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.

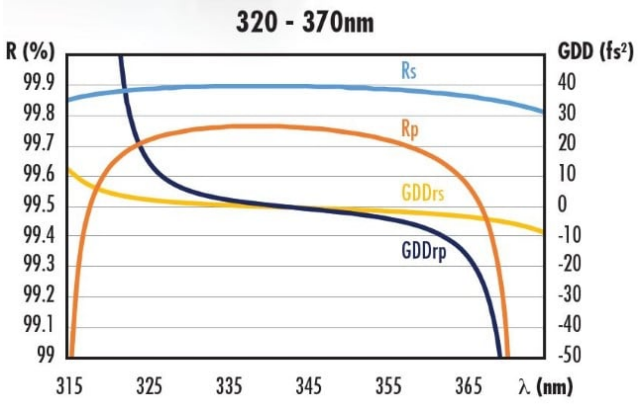
Product Details

- Designed with High Reflectivity for Ultrafast Beam Steering
- Ion-Beam Sputtered Coating for Low Scatter and Absorption
- GDD as Low as 0±20fs^2 at Design Wavelength Range

TECHSPEC® High Performance Low GDD Ultrafast Mirrors are designed to have high reflectivity at 0° or 45° angles of incidence, making them ideal for ultrafast laser beam steering applications. These mirrors have a dispersion compensating coating obtained through a precision ion beam sputtering (IBS) process, providing lower scatter and absorption than traditional dielectric laser mirrors. TECHSPEC High Performance Low GDD Ultrafast Mirrors have a group delay dispersion (GDD) of near zero at their design wavelength range, minimizing dispersion of the reflected beam. Typical applications include use in the transport of femtosecond laser pulses.

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

Technical Information



Compatible Mounts

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