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



Stock #12-465 **5 In Stock**

- 1 + MRP ₹57,507

i Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹57,507 each
Qty 6+	₹50,950 each
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General

Laser Mirror **Type:**

Yb:doped Lasers 3rd Harmonic **Typical Applications:**

Physical & Mechanical Properties

>80 **Clear Aperture (%):**

Back Surface:

Commercial Polish

50.80 +0.00/-0.10 **Diameter (mm):**

9.52 ±0.10 **Thickness (mm):**

<10 **Parallelism (arcsec):**

<5 **Surface Roughness (□):**

Optical Properties

10-5 **Surface Quality:**

98.5 **Reflection at DWL (%):**

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

GDD Specification:
0 ±10fs² @ 320 - 370nm (s-pol), @ 330 - 360nm (p-pol)

320 - 370 **Wavelength Range (nm):**

λ/8 **Surface Flatness (P-V):**

Dielectric **Coating Type:**

Ultrafast (320-370nm) **Coating:**

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

45 **Angle of Incidence (°):**

Substrate: □
Fused Silica (Corning 7980)

Damage Threshold, By Design: □
0.55 J/cm² @ 343nm, 180fs FWHM, S-polarization, 1 pulse (typical)
0.25 J/cm² @ 343nm, 180fs FWHM, S-polarization, 1000 pulses (typical)
0.37 J/cm² @ 343nm, 180fs FWHM, P-polarization, 1 pulse (typical)
0.22 J/cm² @ 343nm, 180fs FWHM, P-polarization, 1000 pulses (typical)
0.35 J/cm² @ 343 nm, 1 ps FWHM, 100 Hz, P-polarization, 1000 pulses

Regulatory Compliance

RoHS 2015:
Compliant

Reach 205:
Compliant

Certificate of Conformance:
[View](#)

Country of Origin:
Lithuania

Imported By:
Edmund Optics India Private Limited
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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

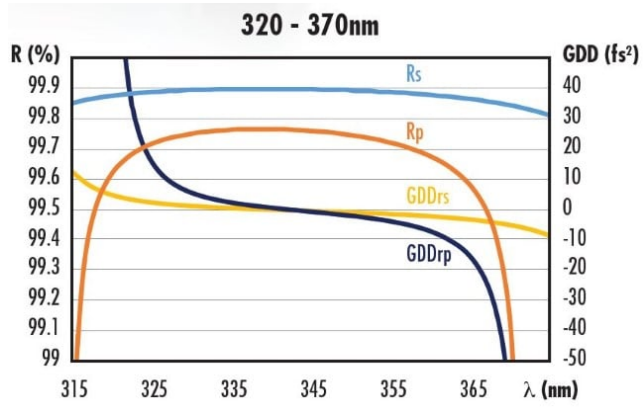
- Designed with High Reflectivity for Ultrafast Beam Steering

- Ion-Beam Sputtered Coating for Low Scatter and Absorption
- GDD as Low as $0 \pm 20 \text{fs}^2$ 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