

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



Stock #12-465 7 In Stock

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1

+

£456^{.00}

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Volume Pricing	
Qty 1-5	£456.00 each
Qty 6+	£404.00 each
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Product Downloads

General

Type:	
Laser Mirror	
Typical Applications:	
Yb:doped Lasers 3rd Harmonic	

Physical & Mechanical Properties

Clear Aperture (%):	
>80	

Commercial Polish	Back Surface:
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 (%):
R _s >99.75% @ 320 - 370nm R _p >99.5% @ 327 - 363nm	Coating Specification:
0 ±10fs ² @ 320 - 370nm (s-pol), @ 330 - 360nm (p-pol)	GDD Specification:
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 (°):
Fused Silica (Coming 7980)	Substrate: □
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	Damage Threshold, By Design: □
Regulatory Compliance	
Compliant	RoHS 2015:
Compliant	Reach 205:
View	Certificate of Conformance:

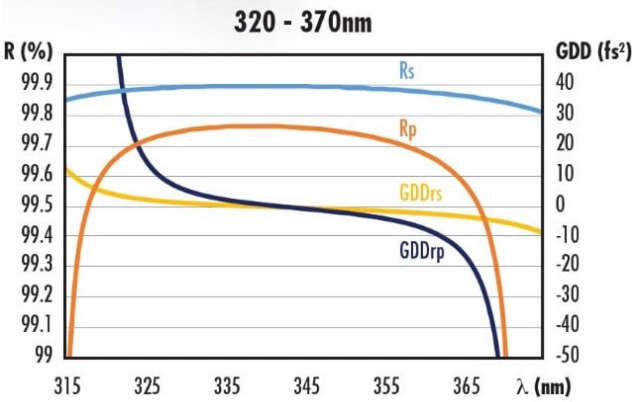
Product Details

- Designed with High Reflectivity for Ultrafast Beam Steering
- Ion-Beam Sputtered Coating for Low Scatter and Absorption
- GDD as Low as 0±20fs² 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



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](#).

Compatible Mounts