

TECHSPEC[®] 241 - 271nm, 12.7mm Dia., Ultrafast Mirror



Stock **#11-734** 6 In Stock

-

1

+

£168^{.00}

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Volume Pricing	
Qty 1-5	£168.00 each
Qty 6+	£147.20 each
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General

Type:

Laser Mirror

Typical Applications:

Ti:Sapphire 3rd Harmonic

Physical & Mechanical Properties

Clear Aperture (%):

>80

Commercial Polish	Back Surface:
12.70 +0.00/-0.10	Diameter (mm):
6.35 ±0.10	Thickness (mm):
<10	Parallelism (arcsec):
<5	Surface Roughness (□):

Optical Properties	
10-5	Surface Quality:
98.5	Reflection at DWL (%):
R _s >98.5% @ 235 - 280nm R _p >97.5% @ 241 - 271nm	Coating Specification:
0 ±10fs ² @ 241 - 271nm	GDD Specification:
241 - 271	Wavelength Range (nm):
λ/10	Surface Flatness (P-V):
Dielectric	Coating Type:
Ultrafast (241-271nm)	Coating:
266	Design Wavelength DWL (nm):
45	Angle of Incidence (°):
Fused Silica (Corning 7980)	Substrate: □
0.26 J/cm ² @ 258nm, 177fs FWHM, P-polarization, 1 pulse (typical) 0.2 J/cm ² @ 258nm, 177fs FWHM, 10kHz, P-polarization, 1000 pulses (typical) 0.3 J/cm ² @ 258 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:

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](#).

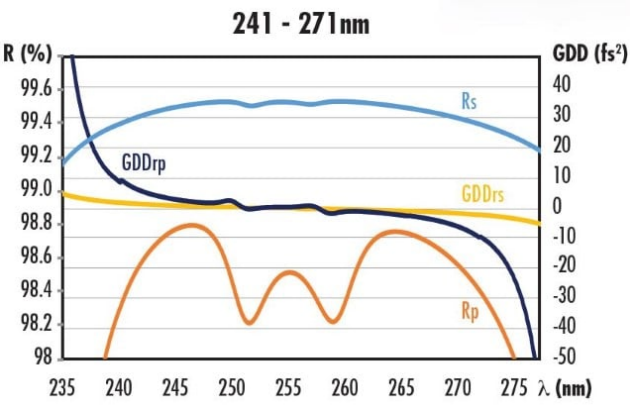
Product Details

- 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



Compatible Mounts