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**TECHSPEC® 800nm, 25.4mm Dia., 45° Ultrafast High Energy Mirror**



Stock **#36-409** **9 In Stock**

- 1 + €325.<sup>00</sup>

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Volume Pricing	
Qty 1-5	€325,00 each
Qty 6-25	€287,00 each
Qty 26+	€276,25 each
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! Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Laser Mirror **Type:**

Ti:Sapphire 1st Harmonic **Typical Applications:**

**Physical & Mechanical Properties**

<5 **Parallelism (arcmin):**

85	<b>Clear Aperture (%)</b>
Commercial Polish	<b>Back Surface:</b>
25.40 +0.00/-0.13	<b>Diameter (mm):</b>
9.52 ±0.25	<b>Thickness (mm):</b>
<b>Optical Properties</b>	
10-5	<b>Surface Quality:</b>
99.5	<b>Reflection at DWL (%)</b>
$R_{avg} \geq 99.5\%$ @ 780 - 820nm	<b>Coating Specification:</b>
$0 \pm 10fs^2$ @ 780 - 820nm	<b>GDD Specification:</b>
780 - 820	<b>Wavelength Range (nm):</b>
$\lambda/6$	<b>Surface Flatness (P-V):</b>
Dielectric	<b>Coating Type:</b>
Ultrafast (780-820nm)	<b>Coating:</b>
800	<b>Design Wavelength DWL (nm):</b>
45	<b>Angle of Incidence (°):</b>
<a href="#">Fused Silica</a> (Corning 7980)	<b>Substrate:</b> <input type="checkbox"/>
0.79 J/cm <sup>2</sup> @ 800nm, 200fs FWHM, 100Hz, Linear Polarization, 1 pulse (typical)	<b>Damage Threshold, By Design:</b> <input type="checkbox"/>
0.7 J/cm <sup>2</sup> @ 800nm, 200fs FWHM, 100Hz, linear polarization, 1000 pulses (typical)	

<b>Regulatory Compliance</b>	
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">Compliant</a>	<b>Reach 219:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>

## Product Details

- Designed with High Reflectivity for Ultrafast Beam Steering
- Ion-Beam Sputtered Coating for Low Scatter and Absorption
- GDD as Low as  $0 \pm 20fs^2$  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.

## 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