

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



Stock #36-409 **8 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>
<b>Fused Silica</b> (Coming 7980)	<b>Substrate:</b> <input type="checkbox"/>
<b>Damage Threshold, By Design:</b> <input type="checkbox"/>	
0.79 J/cm <sup>2</sup> @ 800nm, 200fs FWHM, 100Hz, Linear Polarization, 1 pulse (typical)	
0.7 J/cm <sup>2</sup> @ 800nm, 200fs FWHM, 100Hz, linear polarization, 1000 pulses (typical)	

<b>Regulatory Compliance</b>	
<b>Compliant</b>	<b>RoHS 2015:</b>
<b>Compliant</b>	<b>Reach 219:</b>
<b>View</b>	<b>Certificate of Conformance:</b>

## 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  $0 \pm 20fs^2$  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.

## Compatible Mounts

