

[See all 17 Products in Family](#)

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



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

⊖ 1 ⊕ C\$455<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	C\$455.00 each
Qty 6-25	C\$401.80 each
Qty 26+	C\$386.75 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Laser Mirror Type:  
 Ti:Sapphire 1st Harmonic Typical Applications:

**Physical & Mechanical Properties**

Paralleism (arcmin):  
 <5

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 <sub>avg</sub> ≥99.5% @ 780 - 820nm	<b>Coating Specification</b> :
0 ±10fs <sup>2</sup> @ 780 - 820nm	<b>GDD Specification</b> :
780 - 820	<b>Wavelength Range (nm)</b> :
λ/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"/>
<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>	
<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±20fs<sup>2</sup> 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