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**TECHSPEC® 700 - 900nm, 12.7mm Dia., Ultrafast Broadband Laser Mirror**



Stock #62-765 **20+ In Stock**

⊖ 1 ⊕ A\$363<sup>20</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-4	A\$363.20 each
Qty 5-9	A\$321.60 each
Qty 10+	A\$284.80 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> :
12.70 +0.0/-0.2	<b>Diameter (mm)</b> :
6.35 ±0.20	<b>Thickness (mm)</b> :
<b>Optical Properties</b>	
10-5	<b>Surface Quality</b> :
99.7	<b>Reflection at DWL (%)</b> :
R <sub>avg</sub> >99.7% @ 730 - 870nm R <sub>s</sub> >99.7% @ 685 - 935nm	<b>Coating Specification</b> :
0 ±20fs <sup>2</sup> @ 700 - 900nm (s-pol) 0 ±20fs <sup>2</sup> @ 740 - 860nm (p-pol)	<b>GDD Specification</b> :
700 - 900	<b>Wavelength Range (nm)</b> :
λ/10	<b>Surface Flatness (P-V)</b> :
Dielectric	<b>Coating Type</b> :
Ultrafast (700-900nm)	<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"/>
10fs <sup>3</sup> @ 800nm, s-pol 40fs <sup>3</sup> @ 800nm, p-pol	<b>TOD Specification</b> :
0.26 J/cm <sup>2</sup> @ 800nm, 100fs FWHM, P-Polarization, 1 pulse (typical) 0.23 J/cm <sup>2</sup> @ 800nm, 100fs FWHM, 100Hz, P-Polarization, 1000 pulses (typical)	<b>Damage Threshold, By Design</b> : <input type="checkbox"/>

<b>Regulatory Compliance</b>	
<a href="#">Compliant</a>	<b>RoHS 2015</b> :
<a href="#">Compliant</a>	<b>Reach 2015</b> :
<a href="#">View</a>	<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](#).

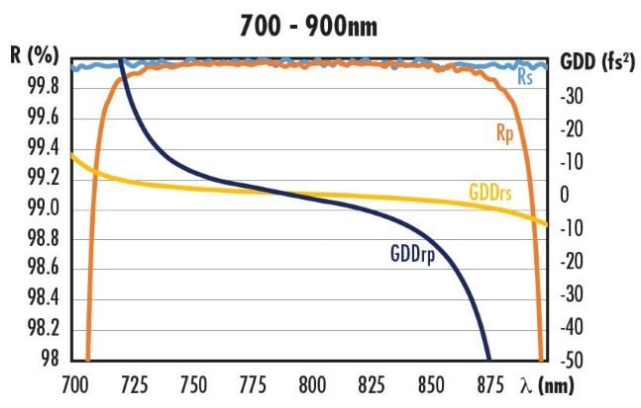
## Product Details

- Designed with High Reflectivity for Ultrafast Beam Steering
- Ion-Beam Sputtered Coating for Low Scatter and Absorption
- GDD as Low as 0±20fs<sup>2</sup> at Design Wavelength Range

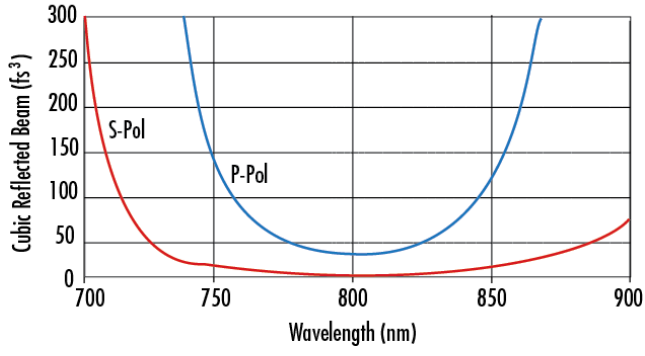
TECHSPEC® High Performance Low GDD Ultrafast Mirrors are designed to have high reflectivity at 0° or 45° angles of incidence, making them ideal for ultrafast laser beam steering applications. These mirrors have a dispersion compensating coating obtained through a precision ion beam sputtering (IBS) process, 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.

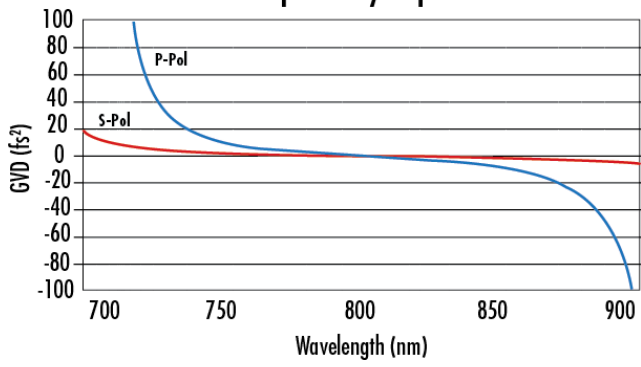
## Technical Information



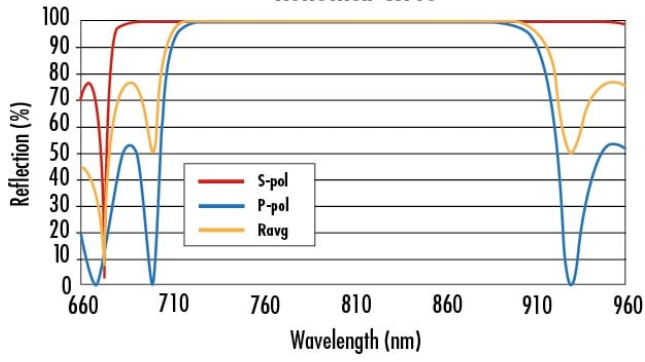
**Ultrafast Ti:Sapphire Laser Mirror  
Cubic Term**



**Ultrafast Ti:Sapphire Laser Mirror  
Group Velocity Dispersion**



**Ultrafast Ti:Sapphire Laser Mirror  
Reflection Curve**



## Compatible Mounts