

TECHSPEC<sup>®</sup> 700 - 900nm, 12.7mm Dia., Ultrafast Broadband Laser Mirror



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

-

1

+

€227<sup>.00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-4        | €227,00 each                  |
| Qty 5-9        | €201,00 each                  |
| Qty 10+        | €178,00 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):

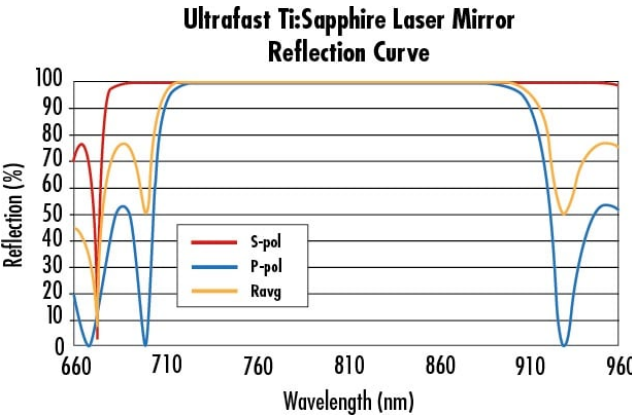
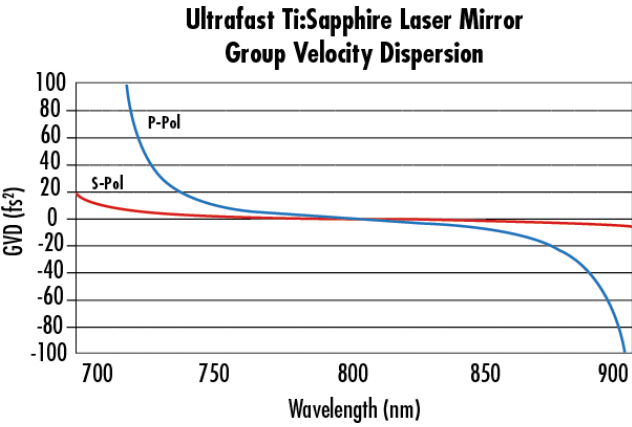
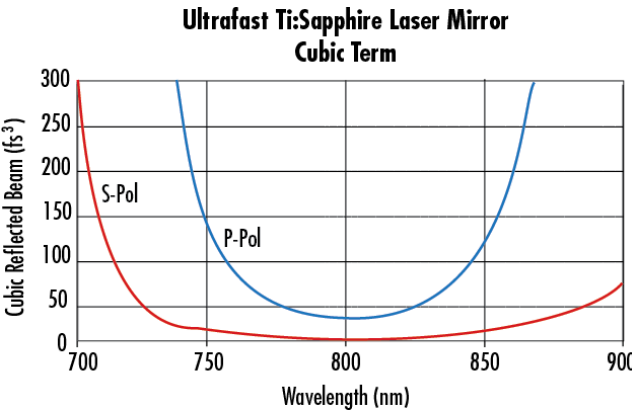
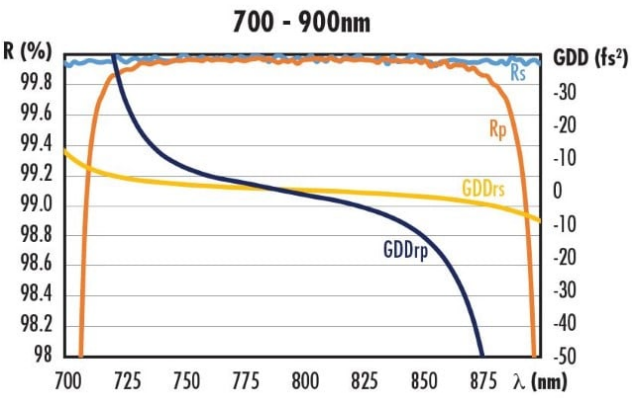
|                                                                                                                                                                           |                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 85                                                                                                                                                                        | Clear Aperture (%):            |
| Commercial Polish                                                                                                                                                         | Back Surface:                  |
| 12.70 +0.0/-0.2                                                                                                                                                           | Diameter (mm):                 |
| 6.35 ±0.20                                                                                                                                                                | Thickness (mm):                |
| Optical Properties                                                                                                                                                        |                                |
| 10-5                                                                                                                                                                      | Surface Quality:               |
| 99.7                                                                                                                                                                      | Reflection at DWL (%):         |
| R <sub>avg</sub> >99.7% @ 730 - 870nm<br>R <sub>s</sub> >99.7% @ 685 - 935nm                                                                                              | Coating Specification:         |
| 0 ±20fs <sup>2</sup> @ 700 - 900nm (s-pol)<br>0 ±20fs <sup>2</sup> @ 740 - 860nm (p-pol)                                                                                  | GDD Specification:             |
| 700 - 900                                                                                                                                                                 | Wavelength Range (nm):         |
| λ/10                                                                                                                                                                      | Surface Flatness (P-V):        |
| Dielectric                                                                                                                                                                | Coating Type:                  |
| Ultrafast (700-900nm)                                                                                                                                                     | Coating:                       |
| 800                                                                                                                                                                       | Design Wavelength DWL (nm):    |
| 45                                                                                                                                                                        | Angle of Incidence (°):        |
| Fused Silica (Corning 7980)                                                                                                                                               | Substrate: □                   |
| 10fs <sup>3</sup> @ 800nm, s-pol<br>40fs <sup>3</sup> @ 800nm, p-pol                                                                                                      | TOD Specification:             |
| 0.26 J/cm <sup>2</sup> @ 800nm, 100fs FWHM, P-Polarization, 1 pulse (typical)<br>0.23 J/cm <sup>2</sup> @ 800nm, 100fs FWHM, 100Hz, P-Polarization, 1000 pulses (typical) | Damage Threshold, By Design: □ |

|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
| Compliant             | RoHS 2015:                  |
| Compliant             | Reach 205:                  |
| View                  | Certificate of Conformance: |

## 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



## 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