

TECHSPEC<sup>®</sup> 515nm, 12.7mm Dia. x 6.35mm Thickness, Ultrafast Laser Mirror



Stock #25-092 20+ In Stock

-

1

+

£84<sup>.00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £84.00 each                   |
| Qty 6-25       | £74.80 each                   |
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 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Laser Mirror

Type:

Physical & Mechanical Properties

6.35 ±0.20

Thickness (mm):

12.70 +0.0/-0.1

Diameter (mm):

|                   |                       |
|-------------------|-----------------------|
| 90                | Clear Aperture (%):   |
| Commercial Polish | Back Surface:         |
| <3                | Parallelism (arcmin): |

Optical Properties

|                                                                                                                                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Fused Silica (Corning 7980)                                                                                                       | Substrate: □                |
| 10-5                                                                                                                              | Surface Quality:            |
| 45                                                                                                                                | Angle of Incidence (°):     |
| Ultrafast (500-530nm)                                                                                                             | Coating:                    |
| 515                                                                                                                               | Design Wavelength DWL (nm): |
| 480 - 530                                                                                                                         | Wavelength Range (nm):      |
| λ/8                                                                                                                               | Surface Flatness (P-V):     |
| Coating Specification:<br>R <sub>(avg)</sub> S & P >99.90% @ 515nm @ 45° AOI<br>R <sub>(avg)</sub> >99.7% @ 500 - 530nm @ 45° AOI |                             |
| Dielectric                                                                                                                        | Coating Type:               |
| GDD Specification:<br>±10 fs <sup>2</sup> @ 480 - 540nm @ 45° AOI (s-pol)<br>±20 fs <sup>2</sup> @ 500 - 530nm @ 45° AOI (p-pol)  |                             |
| Damage Threshold, Pulsed:<br>0.2 J/cm <sup>2</sup> , 150fs @ 515nm                                                                |                             |

Environmental & Durability Factors

|                |             |
|----------------|-------------|
| MIL-PRF-13830B | Durability: |
|----------------|-------------|

Regulatory Compliance

|      |                             |
|------|-----------------------------|
| View | Certificate of Conformance: |
|------|-----------------------------|

## Product Details

- GDD as Low as ±20fs<sup>2</sup> at Design Wavelength Range
- Greater than 99.9% Reflectivity
- Ideal for Ti:sapphire and Yb:doped Ultrafast Lasers

TECHSPEC® Low GDD Dielectric Ultrafast Laser Mirrors feature a multilayer dielectric coating on fused silica substrates for excellent reflectivity of greater than 99.9%, and low coefficient of thermal expansion, making them ideal for ultrafast beam transport applications. These mirrors have a group delay dispersion (GDD) of near zero at their design wavelength range, minimizing dispersion of the reflected beam. TECHSPEC® Low GDD Dielectric Ultrafast Laser Mirrors are ideal for utilizing the first and second harmonic of Ti:sapphire and Yb:doped lasers for applications such as laser machining and welding.

**Note:** Please [contact us](#) if your application requires a TECHSPEC 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](#).