

TECHSPEC<sup>®</sup> 1060nm, 50.8mm Dia. x 9.53mm Thickness, Ultrafast Laser Mirror



Stock #26-840 11 In Stock

-

1

+

₹23,355

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | ₹23,355 each                  |
| Qty 6+         | ₹22,577 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:

Laser Mirror

Physical & Mechanical Properties

Thickness (mm):

9.53 ±0.20

Diameter (mm):

50.80 +0.00/-0.10

Clear Aperture (%):

90

|                                                                                                                |                             |
|----------------------------------------------------------------------------------------------------------------|-----------------------------|
| Commercial Polish                                                                                              | Back Surface:               |
| <3                                                                                                             | Parallelism (arcmin):       |
| Optical Properties                                                                                             |                             |
| Fused Silica (Corning 7980)                                                                                    | Substrate: □                |
| 10-5                                                                                                           | Surface Quality:            |
| 45                                                                                                             | Angle of Incidence (°):     |
| Ultrafast (1010-1110nm)                                                                                        | Coating:                    |
| 1060                                                                                                           | Design Wavelength DWL (nm): |
| 1010 - 1110                                                                                                    | Wavelength Range (nm):      |
| λ/8 over 70% CA                                                                                                | Surface Flatness (P-V):     |
| R <sub>(avg)</sub> S & P >99.90% @ 1060nm @ 45° AOI<br>R <sub>(avg)</sub> >99.7% @ 1010 - 1110nm @ 45° AOI     | Coating Specification:      |
| Dielectric                                                                                                     | Coating Type:               |
| ±10 fs <sup>2</sup> @ 1010 – 1110nm @ 45° AOI (s-pol)<br>±30 fs <sup>2</sup> @ 1030 – 1090nm @ 45° AOI (p-pol) | GDD Specification:          |
| Environmental & Durability Factors                                                                             |                             |
| ML-PRF-13830B                                                                                                  | Durability:                 |
| Regulatory Compliance                                                                                          |                             |
| View                                                                                                           | Certificate of Conformance: |
| United States                                                                                                  | Country of Origin:          |
| Edmund Optics India Private Limited                                                                            | Imported By:                |

## 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](#).