

TECHSPEC® 1550nm, 50.8mm Dia. x 9.53mm Thickness, Ultrafast Laser Mirror



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1

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₹23,355

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SPECIFICATIONS

General

Type:
Laser Mirror

Physical & Mechanical Properties

Diameter (mm):

50.80 +0.00/-0.10	
9.53 ±0.20	Thickness (mm):
<3	Parallelism (arcmin):
90	Clear Aperture (%):
Commercial Polish	Back Surface:
Optical Properties	
45	Angle of Incidence (°):
Ultrafast (1510-1590nm)	Coating:
1550	Design Wavelength DWL (nm):
Fused Silica (Corning 7980)	Substrate: □
10-5	Surface Quality:
R _(avg) S & P >99.90% @ 1550nm @ 45° AOI R _(avg) >99.7% @ 1510 - 1590nm @ 45° AOI	Coating Specification:
1510 - 1590	Wavelength Range (nm):
λ/8 over 70% CA	Surface Flatness (P-V):
Dielectric	Coating Type:
±20 fs ² @ 1510 - 1590nm @ 45° AOI (s-pol) ±30 fs ² @ 1530 – 1580nm @ 45° AOI (p-pol)	GDD Specification:
Environmental & Durability Factors	
ML-PRF-13830B	Durability:
Regulatory Compliance	
View	Certificate of Conformance:

PRODUCT DETAILS

- GDD as Low as ±20fs² 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](#).