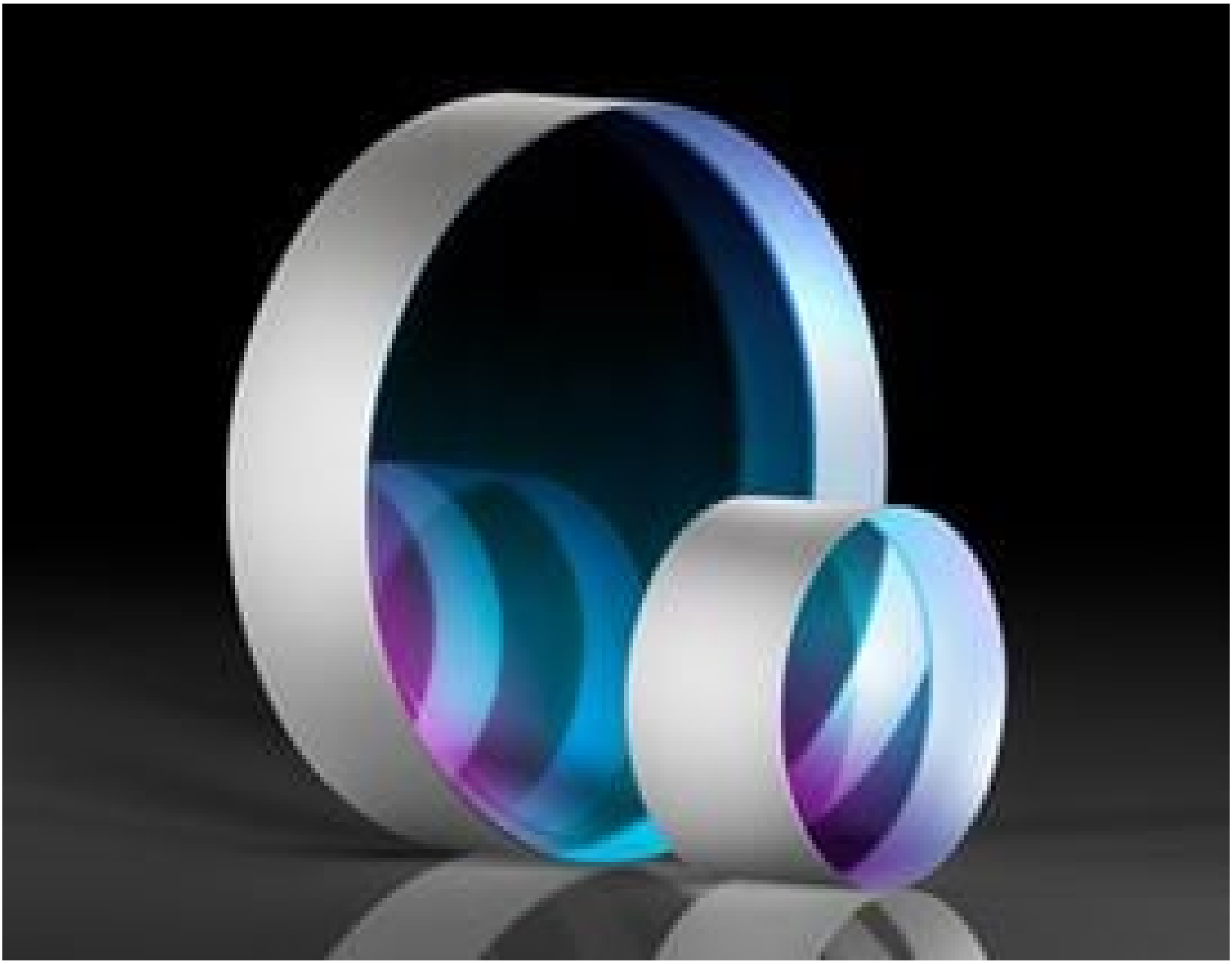
See all 17 Products in Family

TECHSPEC® 700 - 900nm, 25.4mm Dia., Ultrafast Broadband Laser Mirror



Stock **#62-766** **8 In Stock**

- 1 + **£249.60**

ADD TO CART

Volume Pricing	
Qty 1-4	**£249.60** each
Qty 5-9	**£221.60** each
Qty 10+	**£196.00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Laser Mirror

Typical Applications:
Ti:Sapphire 1st Harmonic

Physical & Mechanical Properties

Parallelism (arcmin):
<5

Clear Aperture (%):
85

Back Surface:
Commercial Polish

Diameter (mm):
25.40 +0.0/-0.2

Thickness (mm):
6.35 ±0.20

Optical Properties

Surface Quality:
10-5

Reflection at DWL (%):
99.7

Coating Specification:
R_{avg}>99.7% @ 730 - 870nm
R_s>99.7% @ 685 - 935nm

GDD Specification:
0 ±20fs^2 @ 700 - 900nm (s-pol)
0 ±20fs^2 @ 740 - 860nm (p-pol)

Wavelength Range (nm):
700 - 900

Surface Flatness (P-V):
λ/10

Coating Type:
Dielectric

Coating:
Ultrafast (700-900nm)

Design Wavelength DWL (nm):
800

Angle of Incidence (°):
45

Substrate:
Fused Silica (Corning 7980)

TOD Specification:
10fs^3 @ 800nm, s-pol
40fs^3 @ 800nm, p-pol

Damage Threshold, By Design:
0.26 J/cm^2 @ 800nm, 100fs FWHM, P-Polarization, 1 pulse (typical)
0.23 J/cm^2 @ 800nm, 100fs FWHM, 100Hz, P-Polarization, 1000 pulses (typical)

Regulatory Compliance

RoHS 2015:
Compliant

Reach 205:
Compliant

Certificate of Conformance:
View

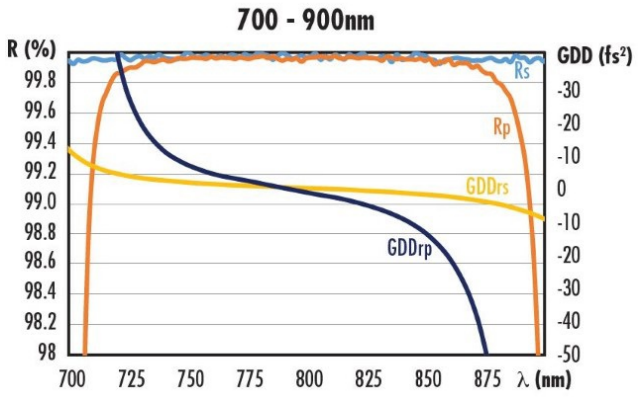
Product Details

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

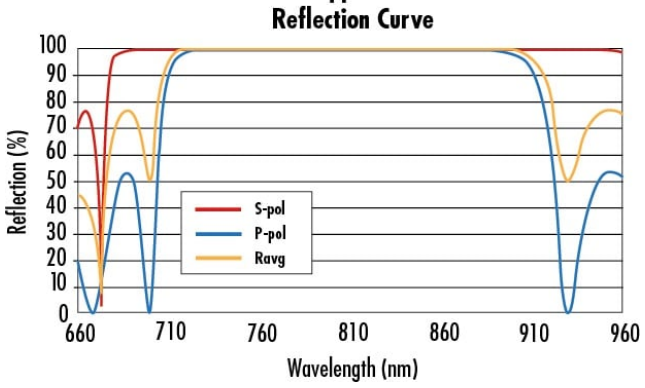
TECHSPEC® High Performance Low GDD Ultrafast Mirrors are designed to have high reflectivity at 0° or 45° angles of incidence, making them ideal for ultrafast laser beam steering applications. These mirrors have a dispersion compensating coating obtained through a precision ion beam sputtering (IBS) process,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

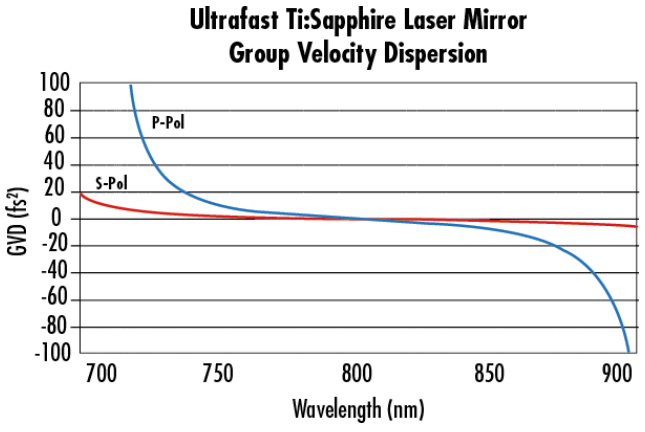
Technical Information



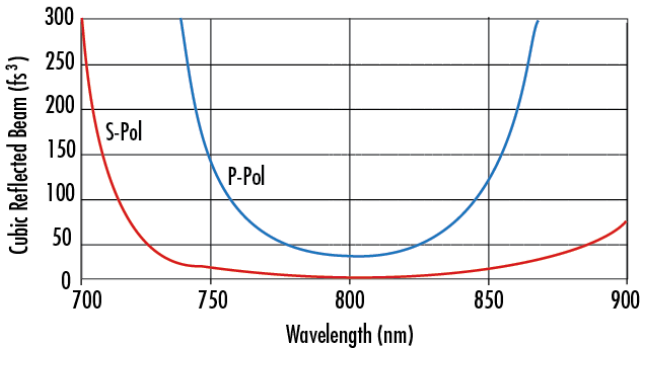
Ultrafast Ti:Sapphire Laser Mirror
Reflection Curve



Ultrafast Ti:Sapphire Laser Mirror
Group Velocity Dispersion



Ultrafast Ti:Sapphire Laser Mirror
Cubic Term



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

;