

25.4mm Dia. 5°, 1030nm Highly-Dispersive Ultrafast Mirror

See More by [UltraFast Innovations \(UFI\)](#)



Stock **#12-333** **20+ In Stock**

-

1

+

€684⁹⁵

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Volume Pricing	
Qty 1-3	€684,95 each
Qty 4-7	€607,70 each
Qty 8+	€535,60 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Laser Mirror

Type:

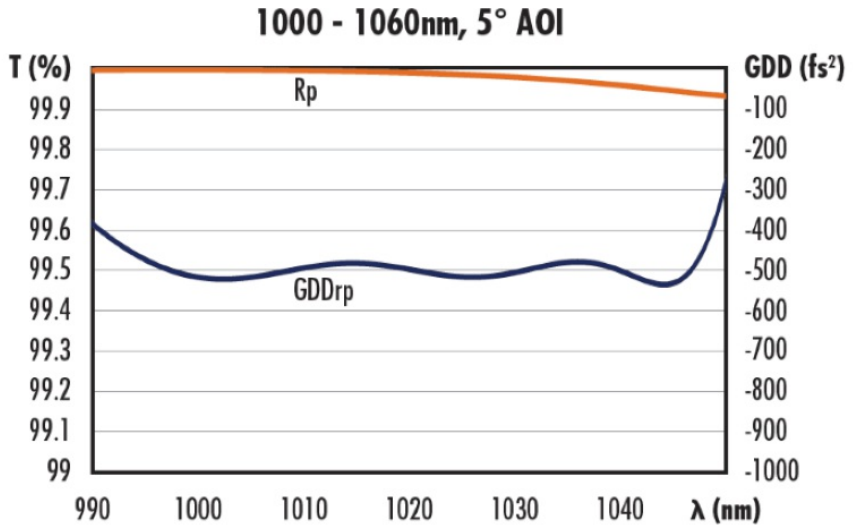
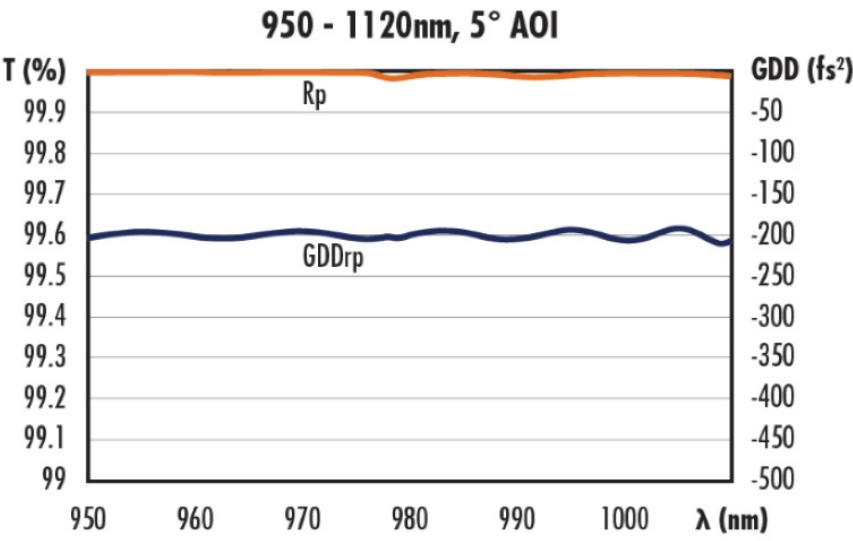
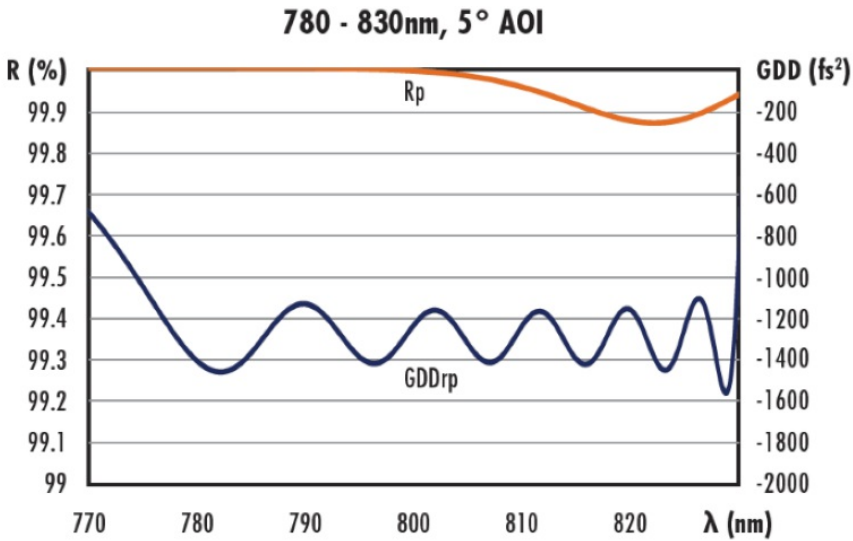
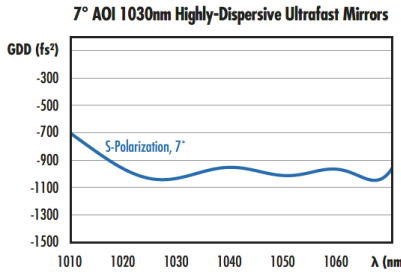
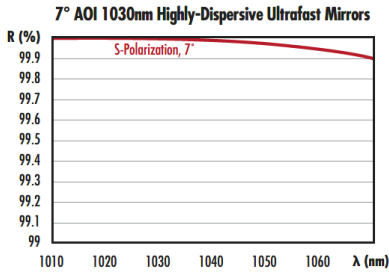
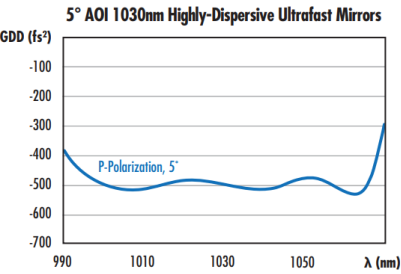
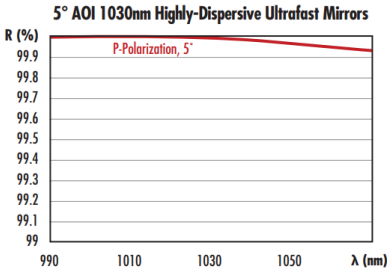
Typical Applications:	
Yb:doped 1st Harmonic	
Model Number:	
HD59	
Physical & Mechanical Properties	
Diameter (mm):	
25.40 +0.0/-0.1	
Thickness (mm):	
6.35 ±0.2	
Back Surface:	
Commercial Polish	
Clear Aperture (%):	
80	
Wedge Angle (arcmin):	
10 ±5	
Optical Properties	
Design Wavelength DWL (nm):	
1030	
Wavelength Range (nm):	
1000 - 1060	
Angle of Incidence (°):	
5	
Reflection at DWL (%):	
99.9 (typical, p-polarization)	
Substrate:	
Fused Silica (Corning 7980)	
Coating Type:	
Dielectric	
Coating Specification:	
R _{avg} >99.8%, GDD = -500fs ² @ 1000 - 1060nm (p-polarization) R _{abs} >99.9% @ 1030nm (typical, p-polarization)	
GDD Specification:	
-500fs ² @ 1000 - 1060nm	
Coating:	
Ultrafast (1000-1060nm)	
Irregularity (P-V) @ 632.8nm:	
λ/10	
Minimum Reflectivity:	
>99.8% @ 1000 - 1060nm (p-polarization)	
Damage Threshold, By Design:	
0.3 J/cm ² @ 1030nm, 50fs, 1kHz, 100μm Beam Diameter	
Regulatory Compliance	
RoHS 2015:	
Compliant	
Certificate of Conformance:	
View	
Reach 235:	
Compliant	

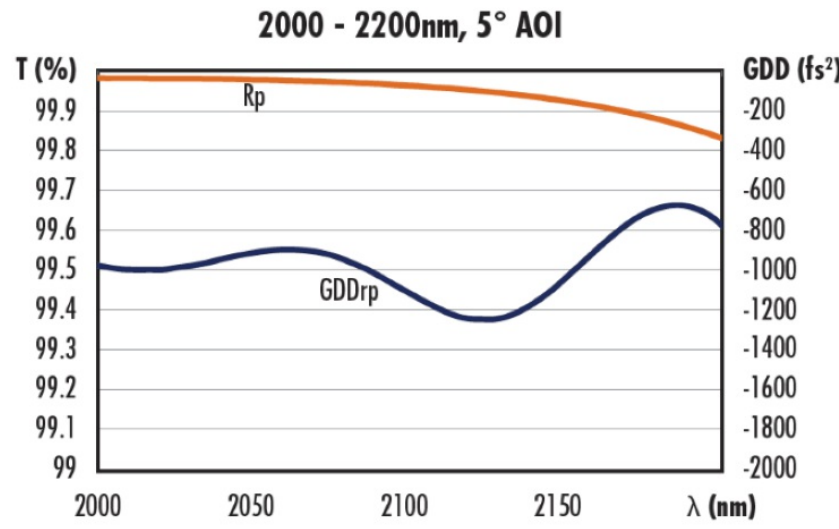
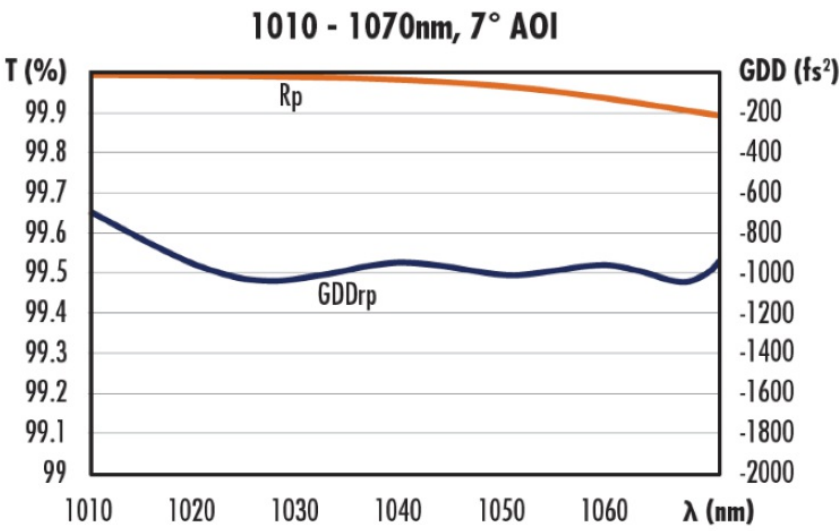
PRODUCT DETAILS

- Highly Negative GDD up to -1000 fs² at 7° AOI
- >99.8% Minimum Reflection across 60nm Bandwidth
- Ideal for Dispersion Compensation of Yb:doped Fiber Lasers
- Ultrafast Chirped Coating

UltraFast Innovations (UFI) 1030nm Highly-Dispersive Ultrafast Mirrors are characterized by an exceptionally low GDD and high reflectance over their 60nm bandwidth due to an optimized multilayer coating. Based on dispersive optical interference, the ultrafast chirped coating provides these mirrors with a highly negative GDD of -500fs² or -1000fs² at their design angle of incidence, 5 or 7°. These mirrors feature a typical reflectance of >99.9% at their design wavelength and a minimum reflectance of 99.8% across their bandwidth. UFI 1030nm Highly-Dispersive Ultrafast Mirrors are ideal for pulse compression and dispersion compensation of Yb:doped lasers such as hybrid Mamyshev fiber and thin disk lasers. Standard imperial sizes of ½" or 1" (12.7mm or 25.4mm) are available; please contact us if your laser system requires a custom size, wavelength, or ultrashort pulses and we would be happy to find the right solution for your application.

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