See all 3 Products in Family

25.4mm Dia. 20°, 780nm Highly-Dispersive Ultrafast Mirror

See More by UltraFast Innovations (UFI)

UltraFast Innovations (UFI) 800nm Highly-Dispersive Ultrafast Mirrors

Stock **#17-067** **5 In Stock**

- 1 + **€936**.00

ADD TO CART

Volume Pricing	
Qty 1-9	**€936,00** each
Qty 10+	**€674,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Laser Mirror

Model Number:
HD1608

Physical & Mechanical Properties

Wedge Angle (arcmin):
10 ±5

Clear Aperture (%):
80

Back Surface:
Commercial Polish

Diameter (mm):
25.40 +0.0/-0.5

Thickness (mm):
6.35 ±0.20

Optical Properties

Reflection at DWL (%):
>99.8% (typical, p-polarization)

Coating Specification:
R_{avg} >99.8%, GDD = -300 fs^2 @ 720 - 840nm (p-polarization)
R_{abs} >99.8% @ 780nm (typical, p-polarization)

GDD Specification:
-300fs^2 @ 740 - 840nm

Wavelength Range (nm):
720 - 840

Irregularity (P-V) @ 632.8nm:
λ/10

Coating Type:
Dielectric

Coating:
Ultrafast (740-840nm)

Design Wavelength DWL (nm):
780

Angle of Incidence (°):
20

Substrate:
Fused Silica (Corning 7980)

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

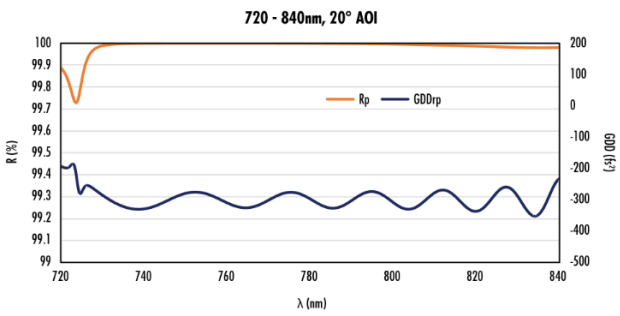
Reach 235:
Compliant

Product Details

- Reflection >99.8% (P-polarization) at 720 – 840nm or 780 – 830nm
- Low Group Delay Dispersion at 5° or 20° AOIs
- Ideal for Pulse Compression of Ti:sapphire Ultrafast Lasers
- Low GDD Mirrors Also Available

UltraFast Innovations (UFI) 780 and 800nm Highly-Dispersive Ultrafast Mirrors feature an optimized multilayer ultrafast chirped coating based on dispersive optical interference that provides a low group delay dispersion (GDD) and high reflectance. These ultrafast mirrors provide GDDs as low as -1300fs^2 and greater than 99.8% reflectivity for p-polarization. The highly-dispersive design of these ultrafast mirrors offers control of third and higher order dispersions, and provides high beam stability at either 5° or 20° angle of incidence. UltraFast Innovations (UFI) 780 and 800nm Highly-Dispersive Ultrafast Mirrors are ideal for pulse compression and dispersion compensation of ultrafast pulses, such as Ti:sapphire lasers. Standard imperial sizes are available, featuring fused silica substrates.

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

;