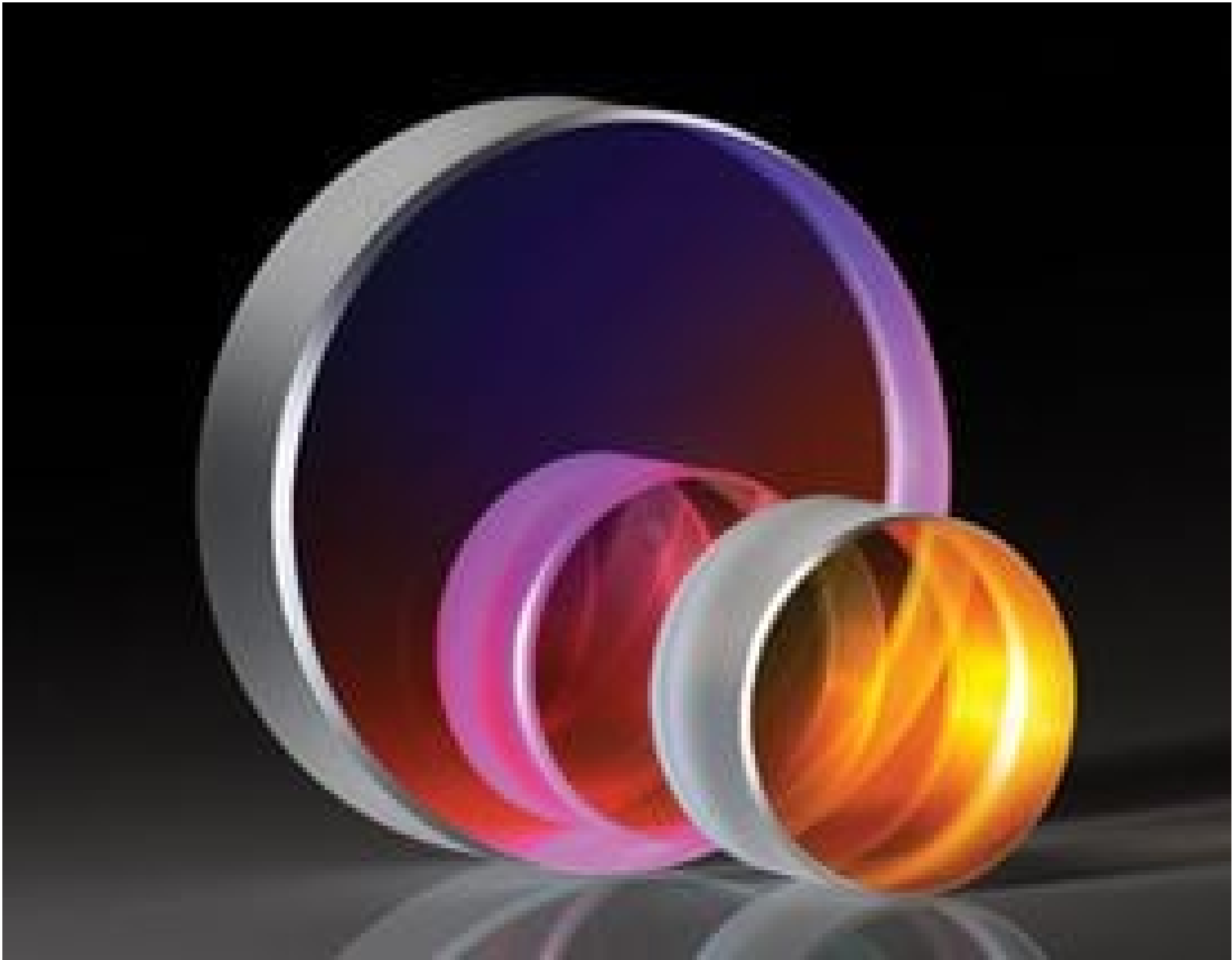


[See all 2 Products in Family](#)

25.4mm Dia. 5°, 2μm Highly-Dispersive Broadband Ultrafast Mirror

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



Stock #11-414 14 In Stock

-

1

+

£748⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-3	£748.00 each
Qty 4-7	£660.00 each
Qty 8-13	£588.00 each
Need More?	Request Quote

 Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
Type:	
Laser Mirror	
Typical Applications:	
Thulium and Holmium Lasers	
Model Number:	
HD1501	

Physical & Mechanical Properties	
10	Wedge Angle (arcmin):
80	Clear Aperture (%):
Commercial Polish	Back Surface:
25.40 +0.0/-0.1	Diameter (mm):
6.35 ±0.01	Thickness (mm):
Optical Properties	
>99.95	Reflection at DWL (%):
99.9	Reflectivity (Rp%):
Ravg >99.9% @ 2000 - 2200nm (p-polarization)	Coating Specification:
-1000fs ² @ 2000 - 2200nm (p-polarization)	GDD Specification:
2000 - 2200	Wavelength Range (nm):
N10	Irregularity (P-V) @ 632.8nm:
Dielectric	Coating Type:
Chirped Ultrafast (2000-2200nm)	Coating:
2000	Design Wavelength DWL (nm):
5	Angle of Incidence (°):
Fused Silica (Corning 7980)	Substrate: ☐

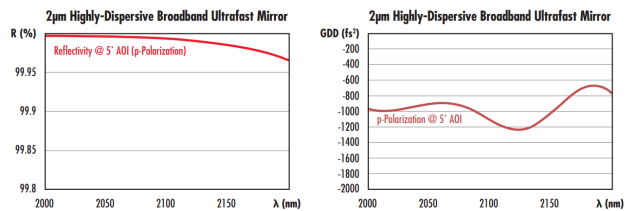
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

Product Details

- Reflectivity >99.9% Between 2000 - 2200nm
- GDD of -1000fs² @ 5° AOI
- Ideal for <100fs Pulse Compression of Thulium and Holmium Lasers
- Broadband Ultrafast Chirped Coating

UltraFast Innovations (UFI) 2µm Highly-Dispersive Broadband Ultrafast Mirrors feature an ultrafast chirped coating and are designed for pulse compression of Thulium (Tm) and Holmium (Ho) lasers, as well as for intracavity dispersion compensation. These mirrors have a high negative group delay dispersion (GDD) of -1000fs² at a 5° angle of incidence (AOI), allowing for pulse compression <100fs. With low loss reflectance >99.9% (P-polarization) between 2000 - 2200nm, these 2 micron mirrors have an absolute reflectance reaching >99.95%. UFI 2µm Highly-Dispersive Broadband Ultrafast Mirrors are ideal for use inside 2µm thin-disk laser oscillators due to their excellent spectral performance, low loss, and proven GDD. These highly-dispersive mirrors are available in two standard sizes of 12.7mm and 25.4mm diameters and are ideal for integration into femtosecond laser systems.

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