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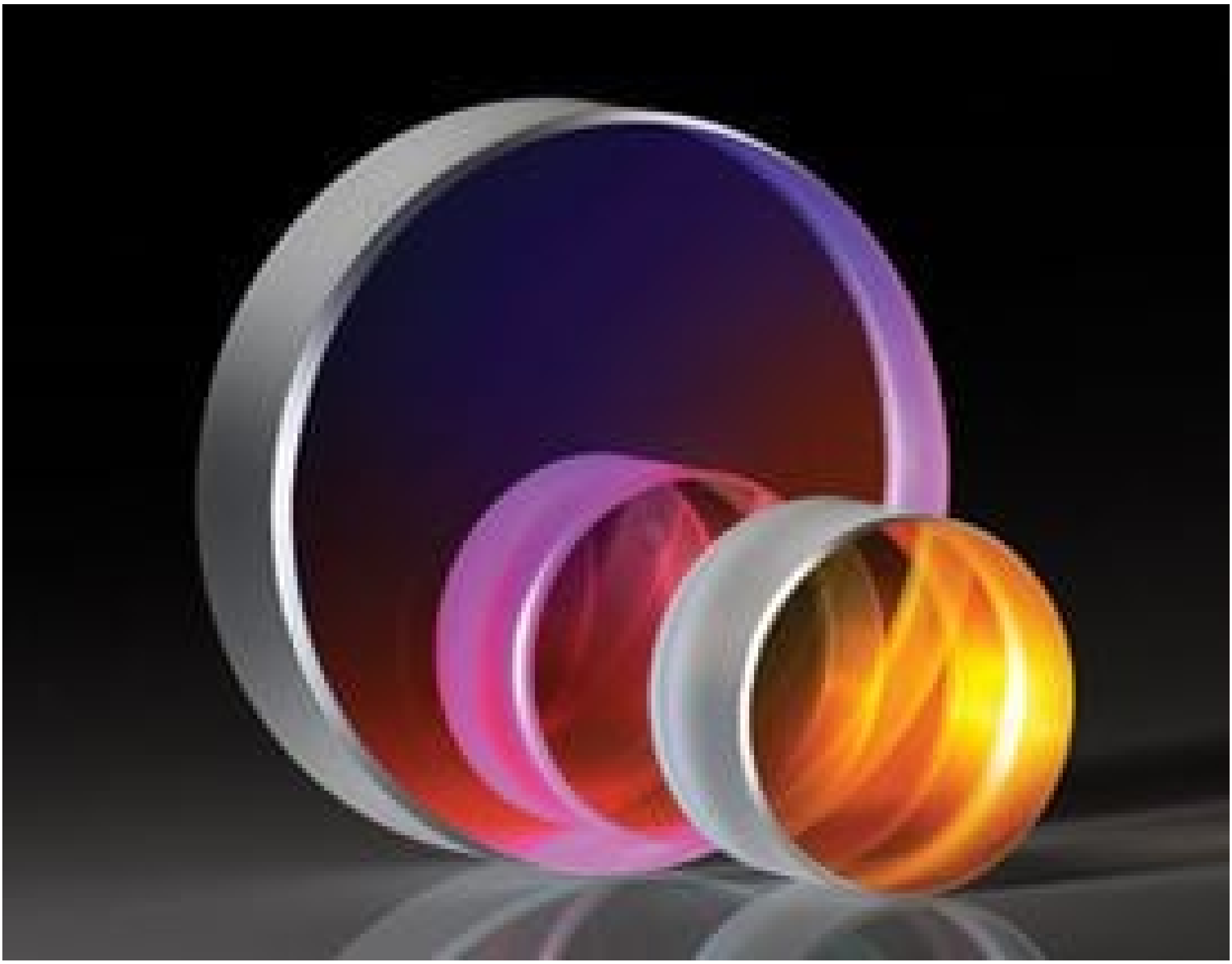
12.7mm Dia. 5°, 2µm Highly-Dispersive Broadband Ultrafast Mirror

See More by UltraFast Innovations (UFI)



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A$1,256.00

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General

Type:
Laser Mirror

Typical Applications:
Thulium and Holmium Lasers

Model Number:
HD1501

Physical & Mechanical Properties

Wedge Angle (arcmin):
10

Clear Aperture (%):
80

Back Surface:
Commercial Polish

Diameter (mm):
12.70 +0.0/-0.1

Thickness (mm):
6.35 ±0.01

Optical Properties

Reflection at DWL (%):
>99.95

Reflectivity (Rp%):
99.9

Coating Specification:
R_{avg} >99.9% @ 2000 - 2200nm (p-polarization)

GDD Specification:
-1000fs^2 @ 2000 - 2200nm (p-polarization)

Wavelength Range (nm):
2000 - 2200

Irregularity (P-V) @ 632.8nm:
λ/10

Coating Type:
Dielectric

Coating:
Chirped Ultrafast (2000-2200nm)

Design Wavelength DWL (nm):
2000

Angle of Incidence (°):
5

Substrate:
Fused Silica (Corning 7980)

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

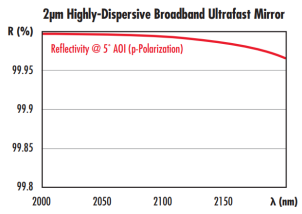
Reach 235:
Compliant

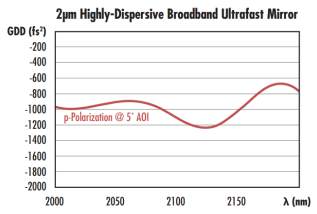
Product Details

- Reflectivity >99.9% Between 2000 - 2200nm
- GDD of -1000fs^2 @ 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 -1000fs^2 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

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