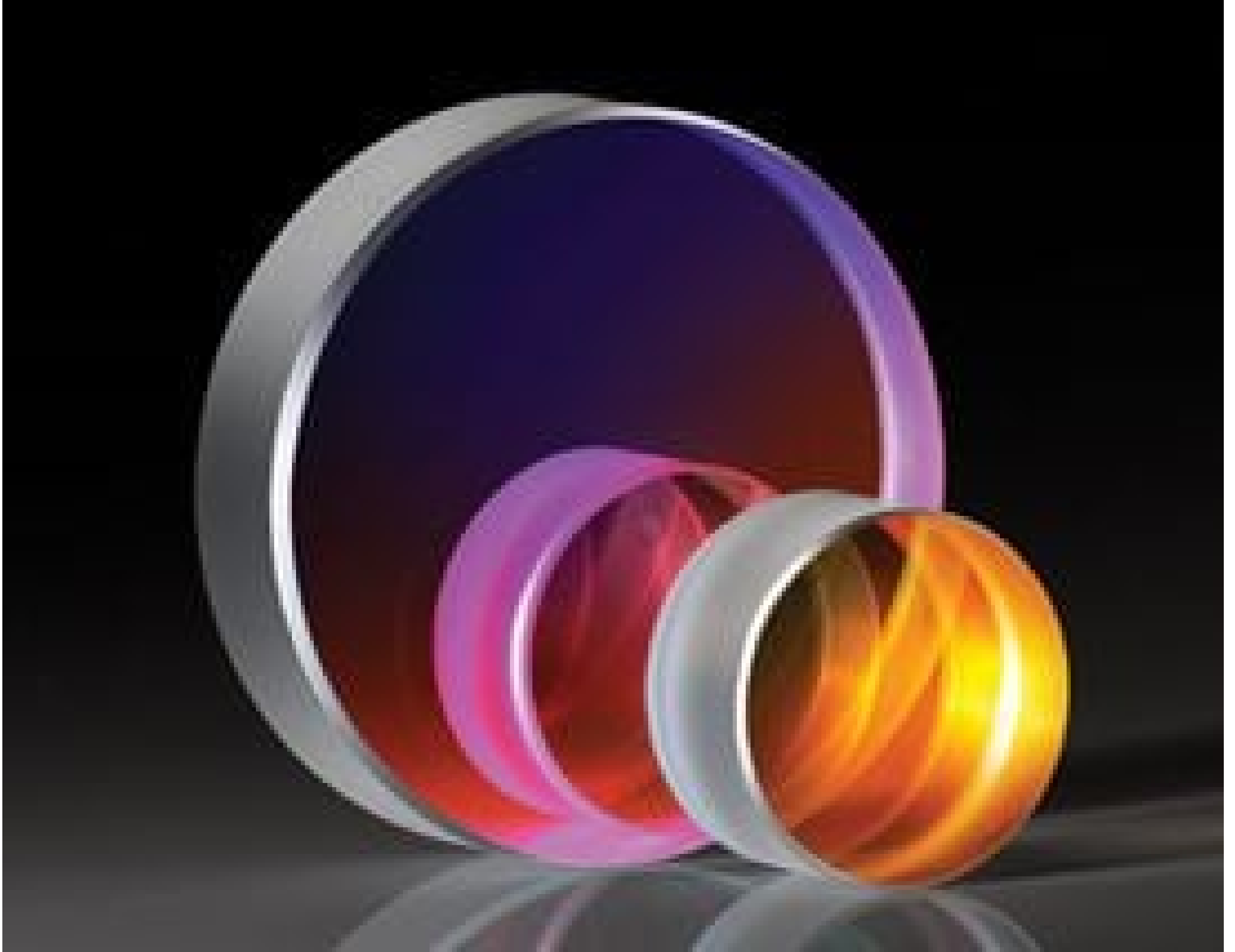


[See all 2 Products in Family](#)

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

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



Stock #11-413 **20+ In Stock**

⊖ 1 ⊕ £628.<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-3	£628.00 each
Qty 4-7	£556.00 each
Qty 8-13	£492.00 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

## Product Downloads

### General

Laser Mirror **Type:**

Thulium and Holmium Lasers **Typical Applications:**

HD1501 **Model Number:**

## Physical & Mechanical Properties

10 **Wedge Angle (arcmin):**

80 **Clear Aperture (%):**

Commercial Polish **Back Surface:**

12.70 +0.0/-0.1 **Diameter (mm):**

6.35 ±0.01 **Thickness (mm):**

## Optical Properties

>99.95 **Reflection at DWL (%):**

99.9 **Reflectivity (Rp%):**

**Coating Specification:**  
R<sub>avg</sub> >99.9% @ 2000 - 2200nm (p-polarization)

**GDD Specification:**  
-1000fs<sup>2</sup> @ 2000 - 2200nm (p-polarization)

2000 - 2200 **Wavelength Range (nm):**

λ/10 **Irregularity (P-V) @ 632.8nm:**

Dielectric **Coating Type:**

Chirped Ultrafast (2000-2200nm) **Coating:**

2000 **Design Wavelength DWL (nm):**

5 **Angle of Incidence (°):**

**Substrate:**   
[Fused Silica](#) (Corning 7980)

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 235:**

## Need different specs or modifications?

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

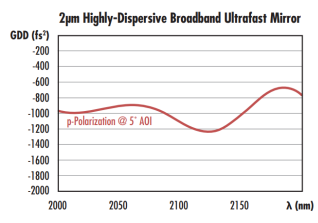
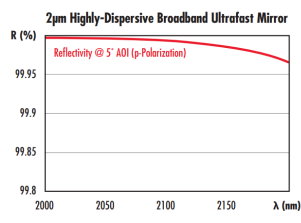
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

- Reflectivity >99.9% Between 2000 - 2200nm
- GDD of -1000fs<sup>2</sup> @ 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<sup>2</sup> 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



## Compatible Mounts