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## 25.4mm Dia., 3200nm Highly Positive Dispersive Ultrafast Mirror

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UltraFast Innovations (UFI) 3200nm Highly-Positive Dispersive Ultrafast Mirrors

Stock **#17-063** **5 In Stock**

⊖ 1 ⊕ €1.068<sup>00</sup>

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### Product Downloads

### General

Model Number:  
HD346

### Physical & Mechanical Properties

Wedge Angle (arcmin):  
10

Clear Aperture (%):

Commercial Polish **Back Surface:**

25.40 +0.00/-0.05 **Diameter (mm):**

6.35 ±0.20 **Thickness (mm):**

## Optical Properties

**Coating Specification:**  
R<sub>avg</sub> >99% @ 2800 - 3600nm (5° AOI, p-polarization)

**GDD Specification:**  
500fs<sup>2</sup> @ 2800 - 3600nm (5° AOI, p-polarization)

2800 - 3600 **Wavelength Range (nm):**

M10 **Irregularity (P-V) @ 632.8nm:**

Dielectric **Coating Type:**

Highly-Positive Dispersive (2800-3600nm) **Coating:**

3200 **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:**

## 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

- Positive GDD of 500 fs<sup>2</sup> at 5° AOI
- >99.9% Minimum Reflection (P-Polarization)
- Broadband Mid-IR Coating Design Covers 2800 – 3600nm
- Ideal for Mid-IR Mode-Locked Lasers

UltraFast Innovations (UFI) 3200nm Highly-Positive Dispersive Ultrafast Mirrors provide highly positive GDD with the same sign of GDD of most materials in this wavelength range. These positively chirped mirrors can be used for pulse compression and chirped-pulsed amplifier systems such as hybrid prism/mirror compressors. At a design angle of incidence (AOI) of 5°, these mirrors maximize the number of reflections between a pair of ultrafast mirrors while maintaining a small footprint. UltraFast Innovations (UFI) 3200nm Highly-Positive Dispersive Ultrafast Mirrors feature fused silica substrates with excellent thermal stability and a 25.4mm diameter to facilitate integration into mid-IR ultrafast laser setups. Please contact us if your laser system requires a custom size, wavelength, or pulse profile.