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25.4mm Dia., 740 - 860nm, Third Order Dispersion (TOD) Ultrafast Mirror

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UltraFast Innovations (UFI) Third Order Dispersion (TOD) Ultrafast Mirrors

Stock **#17-065** **1 In Stock**

€932.⁰⁰

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Volume Pricing	
Qty 1-9	€932,00 each
Qty 10+	€672,00 each
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i Prices shown are exclusive of VAT/local taxes

Product Downloads

General

TOD9 **Model Number:**

Physical & Mechanical Properties

10 **Wedge Angle (arcmin):**

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_{avg} >99% @ 740 - 860nm (7° AOI, p-polarization)

GDD Specification:
0fs² @ 740 - 860nm (7° AOI, p-polarization)

740 - 860 **Wavelength Range (nm):**

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

Dielectric **Coating Type:**

Third Order Dispersive (740-860nm) **Coating:**

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

7 **Angle of Incidence (°):**

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

TOD Specification:
-2500fs³ @ 740 - 860nm (7° AOI, p-polarization)

Regulatory Compliance

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

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

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

Product Details

- Highly Negative Third Order Dispersion (TOD) up to -2500fs³ at 7° AOI
- Ideal to Compensate for TOD without Introducing Additional GDD
- Low Group Delay Dispersion (GDD) of 0fs²
- [II-VI LightSmyth™ Transmission Diffraction Gratings](#) Also Available

UltraFast Innovations (UFI) Third Order Dispersion (TOD) Ultrafast Mirrors provide high throughput, zero group delay dispersion (GDD) and highly negative third order dispersion. These TOD mirrors compensate for the dispersion typically introduced by grating compressors for pulse durations below 50 femtoseconds. At an angle of incidence of 7°, these mirrors feature high reflectance >99.9% for p-polarization to limit losses in laser compressors. UltraFast Innovations (UFI) Third Order Dispersion Ultrafast Mirrors are ideal to compensate for TOD without introducing additional GDD. Please contact us if your laser system requires a custom size, wavelength, or pulse profile.

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

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