

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

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



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

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

-

1

+

€772^{.50}

ADD TO CART

Volume Pricing	
Qty 1-9	€772,50 each
Qty 10+	€690,10 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Model Number:

TOD9

Physical & Mechanical Properties	
10	Wedge Angle (arcmin):
80	Clear Aperture (%):
Commercial Polish	Back Surface:
25.40 +0.00/-0.05	Diameter (mm):
6.35 ±0.20	Thickness (mm):
Optical Properties	
R _{avg} >99% @ 740 - 860nm (7° AOI, p-polarization)	Coating Specification:
0fs ² @ 740 - 860nm (7° AOI, p-polarization)	GDD Specification:
740 - 860	Wavelength Range (nm):
N/10	Irregularity (P-V) @ 632.8nm:
Dielectric	Coating Type:
Third Order Dispersive (740-860nm)	Coating:
800	Design Wavelength DWL (nm):
7	Angle of Incidence (°):
Fused Silica (Corning 7980)	Substrate: ☐
-2500fs ³ @ 740 - 860nm (7° AOI, p-polarization)	TOD Specification:

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

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