

12.7mm Dia., 650 - 1350nm, Complementary Chirped Mirror Pair

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UltraFast Innovations (UFI) Ultra-Broadband Complementary Chirped Mirror Pairs

Stock **#14-673** 20+ In Stock

-

1

+

£1,273⁸⁵

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Volume Pricing	
Qty 1-9	£1,273.85 each
Qty 10+	£1,125.02 each
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Product Downloads

SPECIFICATIONS

General

Sold as a Set of 2

Note:

Physical & Mechanical Properties	
10 ±5	Wedge Angle (arcmin):
80	Clear Aperture (%):
Commercial Polish	Back Surface:
12.70 +0.00/-0.10	Diameter (mm):
6.35 ±0.20	Thickness (mm):
Protective as needed	Bevel:
Optical Properties	
R _{avg} >99% @ 650 - 1350nm (3° AOI, p-polarization)	Coating Specification:
-60fs ² @ 650 - 1350nm (3° AOI, p-polarization)	GDD Specification:
650 - 1350	Wavelength Range (nm):
λ/10	Irregularity (P-V) @ 632.8nm:
Dielectric	Coating Type:
Complementary Chirped Pair (650-1350nm)	Coating:
5	Angle of Incidence (°):
Fused Silica (Corning 7980)	Substrate: ☐
0.2 J/cm ² @ 800nm, 50fs	Damage Threshold, By Design: ☐

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

PRODUCT DETAILS

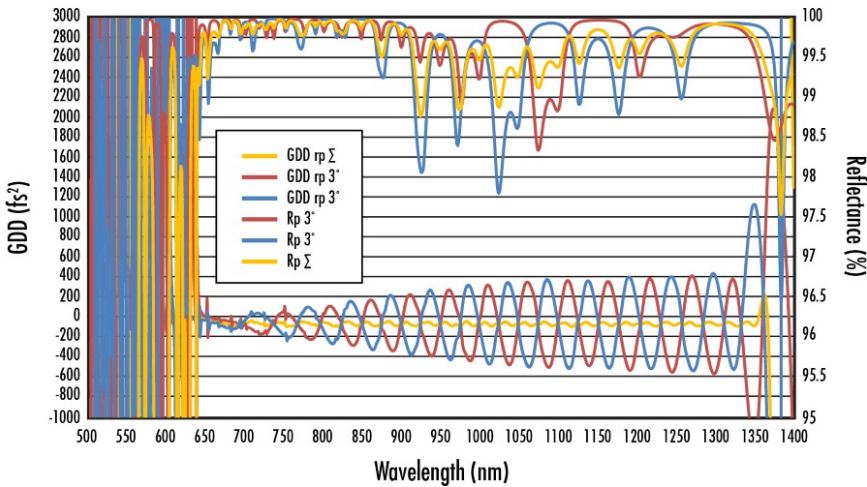
- Ideal for Chirped-Pulse Amplifier Systems and Ultra-Broadband Laser Oscillators
- Ultra-Broadband Design Supports Dispersion Compensation
- Negative GDD as Low as -60fs² and High Reflectivity (>99%) at 600 – 950nm or 650 – 1350nm

UltraFast Innovations (UFI) Ultra-Broadband Complementary Chirped Mirror Pairs are designed to provide dispersion compensation for ultrafast pulses. The matched mirrors feature out-of-phase group delay dispersion (GDD) oscillations leading to a near-constant GDD performance with minimal oscillations. The broadband coating design covers the most common ultrafast laser lines, including Ti:sapphire and Yb:doped fiber, providing negative GDDs as low as -60fs² and average reflectance of >99% (p-polarization) at 600 – 950nm or 650 – 1350nm. The narrow angles of incidence (AOI) allows many reflections of the ultrafast pulse to effectively compensate for dispersion effects. UFI Ultra-Broadband Complementary Chirped Mirror Pairs are ideal for dispersion compensation in ultrafast laser applications, including chirped-pulse amplifier systems and ultra-broadband laser oscillators. Please contact us for custom mirror pairs with different geometries, bandwidths, or spectral specifications.

Note: Complementary Chirped Mirror Pairs are sold in pairs.

TECHNICAL INFORMATION

650 - 1350nm, Complementary Chirped Mirror Pair
Coating Reflectivity/GDD Performance



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
