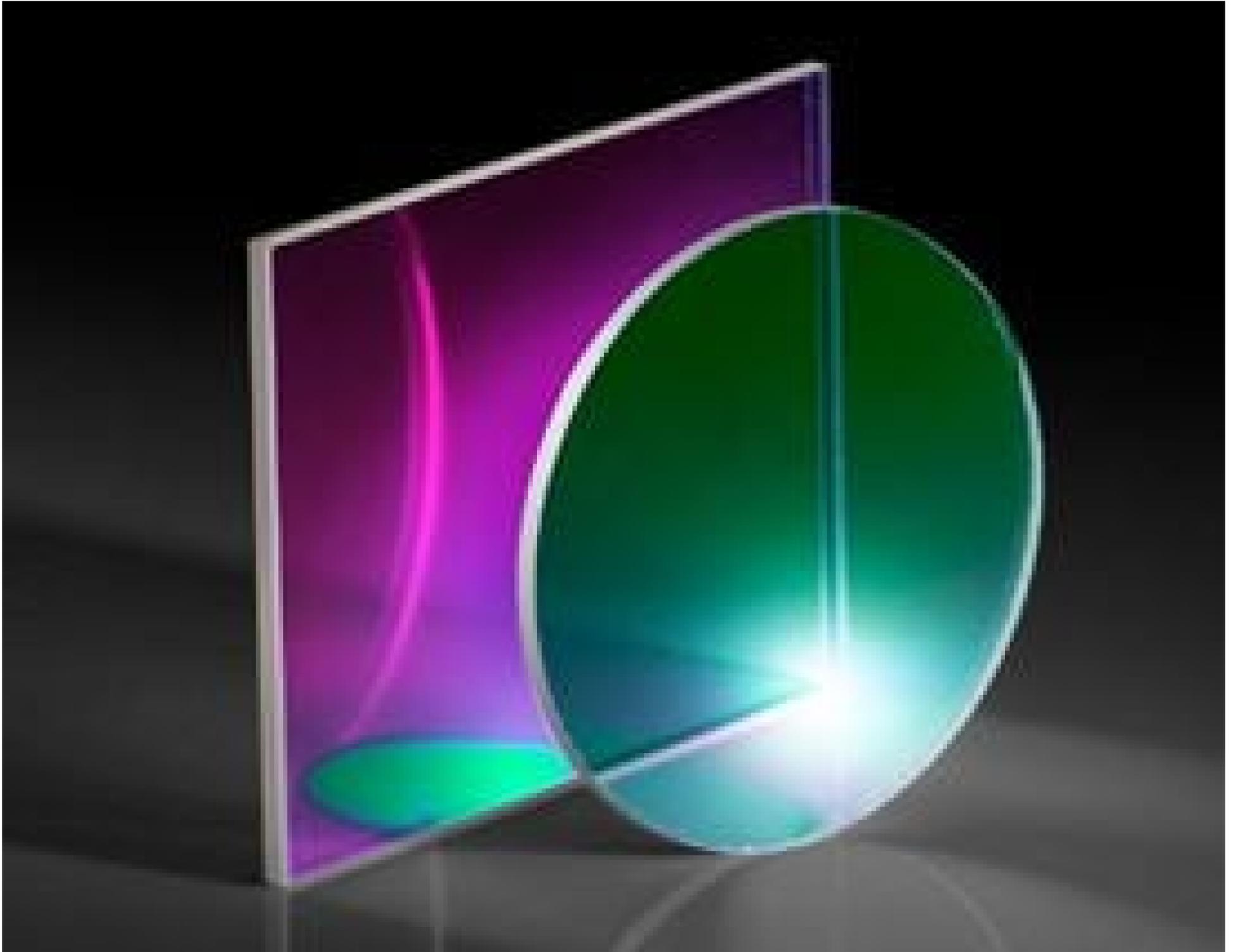


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**TECHSPEC® 500nm, 25.2 x 35.6mm, Low GDD Dichroic Shortpass Ultrafast Filter**



TECHSPEC® Low GDD Dichroic Shortpass Ultrafast Filters

Stock **#14-009** **2 In Stock**

⊖ 1 ⊕ ₹16,193

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Volume Pricing	
Qty 1-5	₹16,193 each
Qty 6+	₹12,923 each
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Product Downloads

**General**

Dichroic Filter **Type:**

**Physical & Mechanical Properties**

25.2 x 35.6 **Dimensions (mm):**

35.60 **Length (mm):**

**Thickness (mm):**

1.05 ±0.1

Width (mm):

25.20

Dimensional Tolerance (mm):

+0.0/-0.2

## Optical Properties

Angle of Incidence (°):

45

Cut-Off Wavelength (nm):

500.00

Substrate:

Fused Silica (Corning 7980)

Coating:

Hard Coated

P-Polarization Transmission (%):

>80

Reflection (%):

>97 Average Polarization

Reflection Wavelength (nm):

520 - 610

S-Polarization Transmission (%):

>80

Surface Quality:

60-40

Transmission (%):

>85 Average Polarization

Transmission Wavelength (nm):

325 - 480

Transmitted Wavefront, RMS:

λ/4

Slope Factor (%):

3.00

Cut-Off Tolerance (%):

±2

S-Polarization Reflection (%):

>95

P-Polarization Reflection (%):

>95

Coating Specification:

Surface 1: Hard Dielectric Sputtered Surface 2: AR Coated

Wavelength Range (nm):

325 - 610

GDD Specification (Transmission):

80 ±30fs<sup>2</sup> @ 345 - 480nm  
120 ±80fs<sup>2</sup> @ 325 - 480nm

## Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

[View](#)

Reach 235:

Compliant

Country of Origin:

United States

Imported By:

Edmund Optics India Private Limited

## 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](#).

## Product Details

- Reduced Thickness for Limited GDD
- Broad Transmission and Reflection Ranges
- Ideal for Ultrafast Laser Applications
- Controlled GDD Specification Using [In-House Metrology](#)

TECHSPEC® Low GDD Dichroic Shortpass Ultrafast Filters feature thin substrates and a low group delay dispersion (GDD) coating, making them ideal for use with ultrafast laser sources. Designed for a 45° angle of incidence and covering a range of wavelengths, these spectral filters can be used with Ti:sapphire, Nd:doped, and Yb:doped fiber or glass lasers, as well as with optical parametric oscillators and amplifiers. TECHSPEC Low GDD Dichroic Shortpass Ultrafast Filters are ideal for ultrafast laser applications including multi-photon microscopy, nonlinear fluorescence, and femtosecond stimulated Raman spectroscopy. Please contact us if your application requires an ultrafast optical filter with a custom size or wavelength range.

**Note:** These filters are optimized for high spectral performance rather than high Laser Induced Damage Thresholds (LIDT). A typical LIDT for these filters is 1 J/cm<sup>2</sup> @ 532nm, 10ns. Please [contact us](#) if you require a filter with a higher LIDT value.

## Compatible Mounts

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