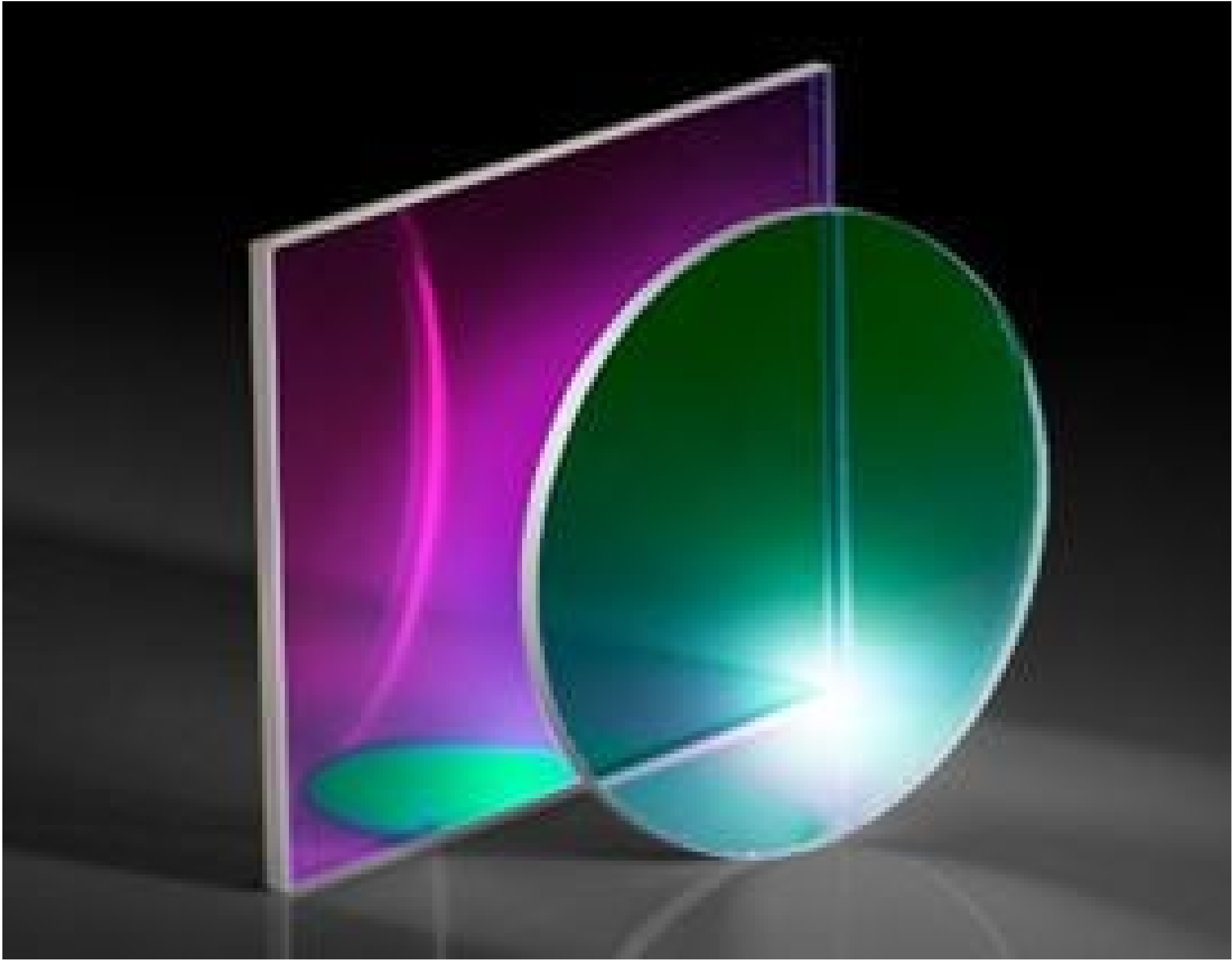


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TECHSPEC<sup>®</sup> 450nm, 25mm Diameter, Low GDD Dichroic Shortpass Ultrafast Filter



TECHSPEC<sup>®</sup> Low GDD Dichroic Shortpass Ultrafast Filters

Stock **#13-996** [CONTACT US](#)

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1

+

£164<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £164.80 each                  |
| Qty 6-25       | £132.00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Dichroic Filter

Type:

Physical & Mechanical Properties

25.00

Diameter (mm):

1.05 ±0.1

Thickness (mm):

|                                                                             |  |
|-----------------------------------------------------------------------------|--|
| Dimensional Tolerance (mm):                                                 |  |
| +0.0/-0.2                                                                   |  |
| Optical Properties                                                          |  |
| Angle of Incidence (°):                                                     |  |
| 45                                                                          |  |
| Cut-Off Wavelength (nm):                                                    |  |
| 450.00                                                                      |  |
| Substrate: <input type="checkbox"/>                                         |  |
| Fused Silica (Corning 7980)                                                 |  |
| Coating:                                                                    |  |
| Hard Coated                                                                 |  |
| P-Polarization Transmission (%):                                            |  |
| >80                                                                         |  |
| Reflection (%):                                                             |  |
| >97 Average Polarization                                                    |  |
| Reflection Wavelength (nm):                                                 |  |
| 470 - 545                                                                   |  |
| S-Polarization Transmission (%):                                            |  |
| >80                                                                         |  |
| Surface Quality:                                                            |  |
| 60-40                                                                       |  |
| Transmission (%):                                                           |  |
| >85 Average Polarization                                                    |  |
| Transmission Wavelength (nm):                                               |  |
| 325 - 430                                                                   |  |
| 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 - 545                                                                   |  |
| GDD Specification (Transmission):                                           |  |
| 80 ±30fs <sup>2</sup> @ 360 - 425nm<br>120 ±80fs <sup>2</sup> @ 325 - 430nm |  |

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

## 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). Atypical 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.

## 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

## Compatible Mounts

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