

TECHSPEC<sup>®</sup> 506nm, 25.2 x 35.6mm High Performance Fluorescence Dichroic Filter



Stock #34-735 2 In Stock

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+

S\$723<sup>.80</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | S\$723.80 each                |
| Qty 6-25       | S\$614.60 each                |
| Qty 26-49      | S\$571.20 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):     |

|                                                                                                                                                                              |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 1.05 ±0.1                                                                                                                                                                    | Thickness (mm):             |
| 25.20                                                                                                                                                                        | Width (mm):                 |
|                                                                                                                                                                              |                             |
| +0.0/-0.2                                                                                                                                                                    | Dimensional Tolerance (mm): |
|                                                                                                                                                                              |                             |
| Physical Durability:<br>Adhesion per MIL-PRF-13830B, Section C.4.5.12<br>Moderate abrasion per MIL-PRF-13830B, Section C.4.5.11<br>Cleaning per MIL-C-48497A Section 4.5.4.2 |                             |

Optical Properties

|                             |                                     |
|-----------------------------|-------------------------------------|
| 45                          | Angle of Incidence (°):             |
|                             |                                     |
| 506.00                      | Cut-On Wavelength (nm):             |
|                             |                                     |
| Fused Silica (Corning 7980) | Substrate: <input type="checkbox"/> |
|                             |                                     |
| Hard Coated                 | Coating:                            |
|                             |                                     |
| R <sub>avg</sub> >98%       | Reflection (%):                     |
|                             |                                     |
| 440 - 500                   | Reflection Wavelength (nm):         |
|                             |                                     |
| 40-20                       | Surface Quality:                    |
|                             |                                     |
| T <sub>avg</sub> >90%       | Transmission (%):                   |
|                             |                                     |
| 513 - 730                   | Transmission Wavelength (nm):       |
|                             |                                     |
| λ/10                        | Transmitted Wavefront, RMS:         |
|                             |                                     |
| 440 - 730                   | Wavelength Range (nm):              |
|                             |                                     |
| λ/2                         | Surface Flatness (P-V):             |

Environmental & Durability Factors

|                                                                                                                                |  |
|--------------------------------------------------------------------------------------------------------------------------------|--|
| Environmental Durability:<br>Humidity per MIL-STD-810H, Section 507.6<br>Temperature per MIL-STD-810H, Section 501.7 and 502.7 |  |
|                                                                                                                                |  |

Regulatory Compliance

|           |                             |
|-----------|-----------------------------|
| Compliant | RoHS 2015:                  |
|           |                             |
| View      | Certificate of Conformance: |
|           |                             |
| Compliant | Reach 247:                  |
|           |                             |

## Product Details

- Improved Flatness, Transmitted Wavefront, and Surface Quality
- Ideal for Fluorescence Microscopy or High Magnification Imaging Applications
- Most Popular Cut-On Wavelengths of Fluorescence and Longpass Dichroic Filters
- Standard [Fluorescence Dichroic Filters](#) are also available

Our TECHSPEC® High Performance Fluorescence Dichroic Filters feature the same broad, flat transmission and reflection ranges as our popular TECHSPEC® Fluorescence Dichroic Filters, but have improved physical parameters. Special attention to surface flatness, transmitted wavefront, and surface quality have resulted in our highest level of precision yet on a filter. These rectangular filters fit into most common Nikon, Zeiss, and Olympus fluorescence microscopes. High Performance Fluorescence Dichroic Filters are a perfect complement to our TECHSPEC® Fluorescence Bandpass Filters. For specific wavelength or size requirements, numerous custom options are available.

The TECHSPEC® Dichroic Filters (sometimes referred to as dichroic plate beamsplitters or dichroic mirrors) feature broad, flat transmission and reflection ranges with an ultra-steep slope between them. These attributes make them ideal for fluorescence imaging or spectral sorting applications, including DNA sequencing and polymerase chain reaction (PCR) diagnostic instruments.

**Note:** The filter should be oriented in such a way that the incoming light is incident on the surface that the chevron on the edge of the filter points towards (the dielectrically coated surface).

## Technical Information

| Filter Type            | Transmitted Wavefront (RMS) | Surface Quality | Surface Flatness (P-V) | R(avg) | T(avg) |
|------------------------|-----------------------------|-----------------|------------------------|--------|--------|
| HP Dichroic            | λ/10                        | 40-20           | λ/2                    | >98%   | >90%   |
| Fluorescence Dichroics | 1λ                          | 60-40           | -                      | >98%   | >90%   |
| Dichroic Longpass      | λ/4                         | 40-20           | -                      | >97%   | >85%   |

# 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](#).

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