

TECHSPEC<sup>®</sup> 600nm, 25.2 x 35.6mm High Performance Fluorescence Dichroic Filter



Stock **#34-739** 3 In Stock

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1

+

S\$728<sup>.83</sup>

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| Volume Pricing |                               |
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| Qty 1-5        | S\$728.83 each                |
| Qty 6-25       | S\$583.96 each                |
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SPECIFICATIONS

General

Type:

Dichroic Filter

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 ML-PRF-13830B, Section C.4.5.12<br>Moderate abrasion per ML-PRF-13830B, Section C.4.5.11<br>Cleaning per ML-C-48497A Section 4.5.4.2 |                             |

### Optical Properties

|                             |                                 |
|-----------------------------|---------------------------------|
| 45                          | Angle of Incidence (°):         |
| 600.00                      | Cut-On Wavelength (nm):         |
| Fused Silica (Corning 7980) | Substrate: <input type="text"/> |
| Hard Coated                 | Coating:                        |
| R <sub>avg</sub> >98%       | Reflection (%):                 |
| 460 - 570                   | Reflection Wavelength (nm):     |
| 40-20                       | Surface Quality:                |
| T <sub>avg</sub> >90%       | Transmission (%):               |
| 607 - 900                   | Transmission Wavelength (nm):   |
| λ/10                        | Transmitted Wavefront, RMS:     |
| 460 - 900                   | 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            | $\lambda/10$                | 40-20           | $\lambda/2$            | >98%   | >90%   |
| Fluorescence Dichroics | $1\lambda$                  | 60-40           | -                      | >98%   | >90%   |
| Dichroic Longpass      | $\lambda/4$                 | 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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