

TECHSPEC<sup>®</sup> 800nm, 25.2 x 35.6mm High Performance Fluorescence Dichroic Filter



Stock **#34-747** 2 In Stock

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+

£413<sup>.60</sup>

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| Qty 1-5        | £413.60 each                  |
| Qty 6-25       | £351.20 each                  |
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Product Downloads

General

Type:

Dichroic Filter

Physical & Mechanical Properties

Dimensions (mm):

25.2 x 35.6

Length (mm):

35.60

|                                                                                                                                                                              |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 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 (°):             |
| 800.00                      | Cut-On Wavelength (nm):             |
| Fused Silica (Corning 7980) | Substrate: <input type="checkbox"/> |
| Hard Coated                 | Coating:                            |
| R <sub>avg</sub> >98%       | Reflection (%):                     |
| 600 - 760                   | Reflection Wavelength (nm):         |
| 40-20                       | Surface Quality:                    |
| T <sub>avg</sub> >90%       | Transmission (%):                   |
| 807 - 1000                  | Transmission Wavelength (nm):       |
| λ/10                        | Transmitted Wavefront, RMS:         |
| 600 - 1000                  | 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%   |

| Filter Type       | Transmitted Wavefront (RMS) | Surface Quality | Surface Flatness (P-V) | R(avg) | T(avg) |
|-------------------|-----------------------------|-----------------|------------------------|--------|--------|
| 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

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