

**TECHSPEC® 600nm, 12.5 x 17.6mm High Performance Fluorescence Dichroic Filter**



Stock **#34-738** **1 In Stock**

⊖ 1 ⊕ C\$445<sup>.20</sup>

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Volume Pricing	
Qty 1-5	C\$445.20 each
Qty 6-25	C\$378.00 each
Qty 26-49	C\$351.40 each
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**General**

Dichroic Filter **Type:**

**Physical & Mechanical Properties**

12.5 x 17.6 **Dimensions (mm):**

17.60 **Length (mm):**

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

## Optical Properties

45	<b>Angle of Incidence (°):</b>
600.00	<b>Cut-On Wavelength (nm):</b>
<a href="#">Fused Silica</a> (Corning 7980)	<b>Substrate:</b> <input type="checkbox"/>
Hard Coated	<b>Coating:</b>
R <sub>avg</sub> >98%	<b>Reflection (%):</b>
460 - 570	<b>Reflection Wavelength (nm):</b>
40-20	<b>Surface Quality:</b>
T <sub>avg</sub> >90%	<b>Transmission (%):</b>
607 - 900	<b>Transmission Wavelength (nm):</b>
λ/10	<b>Transmitted Wavefront, RMS:</b>
460 - 900	<b>Wavelength Range (nm):</b>
λ/2	<b>Surface Flatness (P-V):</b>

## Environmental & Durability Factors

<b>Environmental Durability:</b> Humidity per ML-STD-810H, Section 507.6 Temperature per ML-STD-810H, Section 501.7 and 502.7	
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## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 247:</b>

## 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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