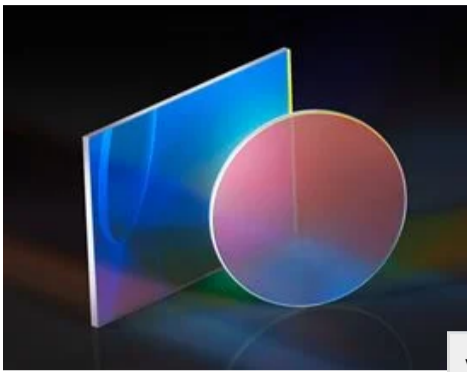


# TECHSPEC® 605nm, 12.5 x 17.6mm, Dichroic Filter



TECHSPEC® Fluorescence Dichroic Filter

Stock #86-321 **20+ In Stock**

1 C\$287<sup>.00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	C\$287.00 each
Qty 6-25	C\$243.60 each
Qty 26-49	C\$226.80 each
Need More?	<a href="#">Request Quote</a>

Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
eDrawing:eprt	
EO Spec Sheet	<a href="#">Download All</a>

## General

**Type:** Dichroic Filter

## Physical & Mechanical Properties

<b>Dimensions (mm):</b>	12.5 x 17.6	<b>Length (mm):</b>	17.60
<b>Thickness (mm):</b>	1.05 ±0.1	<b>Width (mm):</b>	12.50
<b>Dimensional Tolerance (mm):</b>	+0.0/-0.2	<b>Physical Durability:</b>	Adhesion per MIL-PRF-13830B, Section C.4.5.12 Moderate abrasion per MIL-PRF-13830B, Section C.4.5.11 Cleaning per MIL-C-48497A Section 4.5.4.2

## Optical Properties

<b>Angle of Incidence (°):</b>	45	<b>Cut-On Wavelength (nm):</b>	605.00 ±5.0
<b>Substrate:</b>	<b>Fused Silica</b> (Corning 7980)	<b>Coating:</b>	Hard Coated
<b>Reflection (%):</b>	98.00 (average)	<b>Reflection Wavelength (nm):</b>	350 - 596
<b>Surface Quality:</b>	60-40	<b>Transmission (%):</b>	90.00 (average)
<b>Transmission Wavelength (nm):</b>	612 - 950	<b>Transmitted Wavefront, RMS:</b>	1λ
<b>Wavelength Range (nm):</b>	350 - 950		

## Environmental & Durability Factors

**Environmental Durability:** Humidity per MIL-STD-810H, Section 507.6  
Temperature per MIL-STD-810H, Section 501.7 and 502.7

## Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: **View**

Reach 247: **Compliant**

## Need different specs or modifications?

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](#).

## Product Details

- Ideal for Fluorescence or Multispectral Imaging
- Sharp Transition from Reflection to Transmission
- Extended Reflection and Transmission Bands
- **High Performance Fluorescence Dichroic Filters** are also available

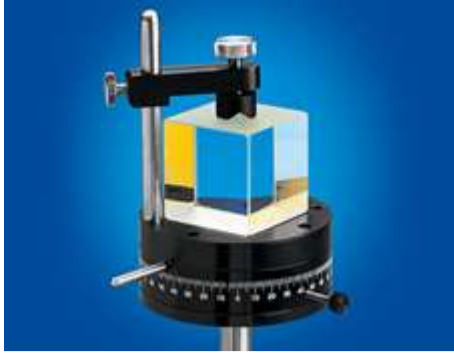
TECHSPEC® Fluorescence Dichroic Filters (sometimes referred to as dichroic plate beamsplitters or dichroic mirrors) feature broad, flat transmission and reflection ranges with an ultra-steep slope between them. These attributes make them ideal for fluorescence imaging or spectral sorting applications, including DNA sequencing and polymerase chain reaction (PCR) diagnostic instruments. They are a perfect complement to our [TECHSPEC® Fluorescence Bandpass Filters](#). TECHSPEC Fluorescence Dichroic Filters, in the 25.2 x 35.6mm size will fit into most common Nikon, Zeiss, and Olympus fluorescence microscopes. The other sizes are well suited to benchtop setups or OEM instrumentation requiring beam separation, beam combination, or multi-spectral detection.

**Note:** The chevron on the edge of the filter points towards surface S1 with the primary filter coating on which the light should be incident.

## 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%

## Related Products



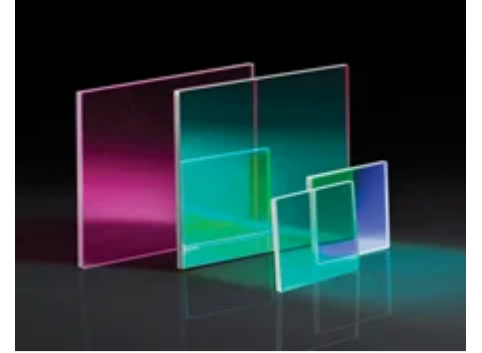
English Prism Mounts



Pre-Mounted Fluorescence Filter Cube Sets

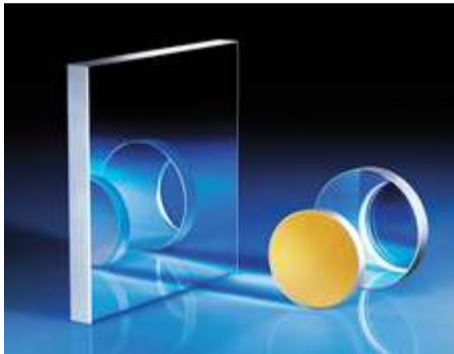


Cotton-Tipped Swab Applicators



High Performance Fluorescence Dichroic Filters

## Frequently Purchased Together



#32-942 - 12.5mm Dia Enhanced Aluminum, 4-6λ Mirror  
C\$39.90

Qty



#33-332 - 575nm CWL, 12.5mm Dia, 27nm Bandwidth, OD 6 Fluorescence Filter  
C\$397.60

Qty



#33-906 - 585nm CWL, 12.5mm Dia, 36nm Bandwidth, OD 6 Fluorescence Filter  
C\$397.60

Qty



#45-709 - 30.0mm Dia. x 50.0mm FL, VIS-NIR Coated, Plano-Convex Lens  
C\$88.20

Qty

## Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	25mm sq - Rectangular Bar Clamp	Fixed		#54-994	C\$151.20 <a href="#">Request Quote</a>	8 In Stock <input type="text" value="1"/>
	60mm sq - Rectangular Bar Clamp	Fixed		#54-995	C\$176.40 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>

Check out our full selection of mounts [here](#).

## Resources

### Media Type

- Application Note
- Video
- Published Article
- FAQ
- Glossary
- Trending in Optics

APPLICATION NOTE

The Importance of Optical Filter Orientation....

APPLICATION NOTE

Custom Bandpass Filter using Shortpass an...

VIDEO

Optical Filters Review

VIDEO

PUBLISHED ARTICLE

FAQ

Optical Filter  
Coatings:  
Comparison of  
Traditional a...

Selecting Color  
Filter Glass for  
Life Science  
Applications

What type of  
material  
should I look  
for in a filter?

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