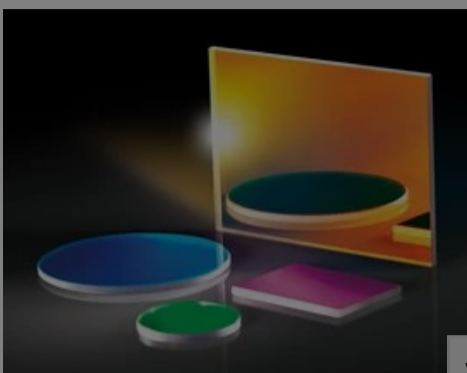


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**TECHSPEC® 1100nm**



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1 €150<sup>,00</sup>

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Volume Pricing	
Qty 1-5	€150,00 each
Qty 6-25	€128,00 each
Qty 26-49	€119,00 each
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Prices shown are exclusive of VAT/local taxes

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>Diameter (mm):</b>	12.50 +0.0/-0.1	<b>Thickness (mm):</b>	1.05 ±0.1
<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>	1,100.00
<b>Substrate:</b>	<a href="#">Fused Silica</a> (Corning 7980)	<b>Coating:</b>	Hard Coated
<b>Reflection (%):</b>	>97, Average Polarization >95, Absolute Polarization	<b>Reflection Wavelength (nm):</b>	825 - 1045
<b>Surface Quality:</b>	60-40	<b>Transmission (%):</b>	>85, Average Polarization >80, Absolute Polarization
<b>Transmission Wavelength (nm):</b>	1135 - 1600	<b>Transmitted Wavefront Tolerance:</b>	λ/4

<b>Cut-On Tolerance (%)</b>	±2	<b>Slope Factor (%)</b>	3.00
<b>Wavelength Range (nm)</b>	825 - 1600	<b>Wavelength</b>	0.825 - 1.6
<b>Environmental &amp; Durability Factors</b>			
<b>Environmental Durability:</b>	Humidity per MIL-STD-810H, Section 507.6 Temperature per MIL-STD-810H, Section 501.7 and 502.7		

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<b>Regulatory Compliance</b>			
<b>RoHS 2015:</b>	<b>Compliant</b>	<b>Certificate of Conformance:</b>	<b>View</b>
<b>Reach 247:</b>	<b>Compliant</b>		

## 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 Cut-On Wavelength
- Broad Transmission and Reflection Ranges

Our TECHSPEC® Dichroic Longpass Filters are designed for a 45° angle of incidence. The rejected light is reflected at 90°, making these filters ideal for use in fluorescence applications or as spectral [beamsplitters](#). These hard coated filters feature low polarization dependence, broad spectral ranges, and a precision fused silica substrate. Reflection and transmission curves are available to easily integrate TECHSPEC® Dichroic Longpass Filters into any application.

**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.

Hard coatings are used to increase durability while maintaining performance. The hard coating provides Dichroic Longpass Filters with high resistance to humidity, temperature, and abrasion, while also reducing the risk of damage when being handled.

## 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%

## Accessories

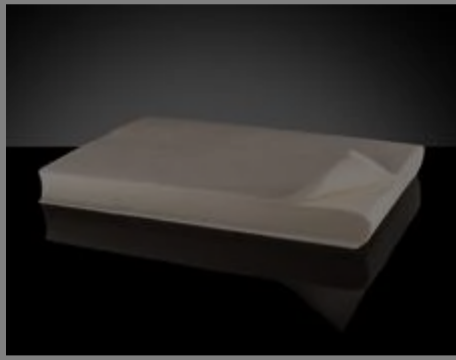
**Note:** Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	400 - 750nm, 25mm Dia., Dichroic Longpass Filter Kit		#15-102	€1.375,00	CONTACT US 1
<a href="#">MORE+</a>	800 - 1200nm, 25mm Dia., Dichroic Longpass Filter Kit				4 In Stock 1
<a href="#">MORE+</a>	400 - 750nm, 25.2 x 35.6mm, Dichroic Longpass Filter Kit				CONTACT US 1
<a href="#">MORE+</a>	800 - 1200nm, 25.2 x 35.6mm, Dichroic Longpass Filter Kit (9 Filters)		#15-105	€1.500,00 Request Quote	CONTACT US 1

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### Frequently Purchased Together



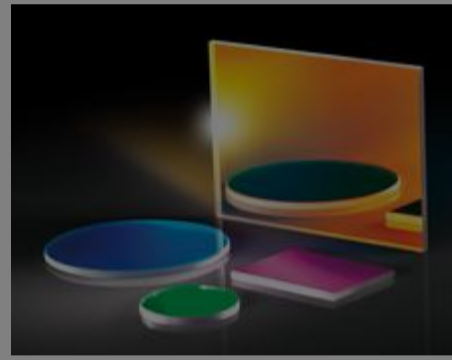
#60-375 - 7.75" x 4" Sheets, Industrial Grade Lens Tissue  
€39,50

Qty



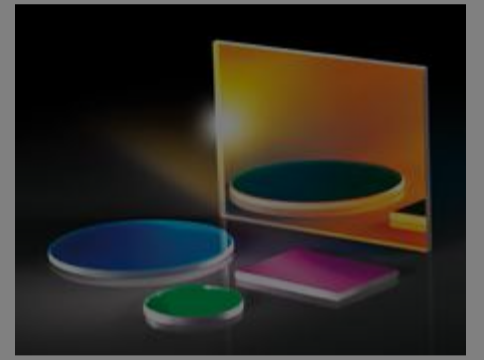
#85-884 - 1200nm CWL, 12.5mm Dia. Hard Coated OD 4.0 50nm Bandpass Filter  
€240,00

Qty



#87-029 - 1050nm, 12.5mm Diameter, Dichroic Longpass Filter  
€150,00

Qty












#87-031 - 1150nm, 12.5mm Diameter, Dichroic Longpass Filter  
€150,00

Qty

### Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	€102,00 Request Quote	20+ In Stock 1
<a href="#">MORE+</a>	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	€106,00 Request Quote	20+ In Stock 1
<a href="#">MORE+</a>	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	€108,00 Request Quote	CONTACT US 1
<a href="#">MORE+</a>	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	€116,00 Request Quote	20+ In Stock 1
<a href="#">MORE+</a>	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	€120,00 Request Quote	20+ In Stock 1
<a href="#">MORE+</a>	4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	€157,00 Request Quote	5 In Stock 1
<a href="#">MORE+</a>	12.5/12.7mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-955	€261,00 Request Quote	5 In Stock 1

	Title	Type	Compare	Stock Number	Price	Buy
					€410,00	<b>CONTACT US</b> 1 
						<b>7 In Stock</b> 1 
		Adjustable - Linear (XYZ)		#62-958	€429,00 <b>Request Quote</b>	<b>5 In Stock</b> 1 

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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**

Optical Filter Coatings: Comparison of Traditional a...

**PUBLISHED ARTICLE**

Selecting Color Filter Glass for Life Science Applications

**FAQ**

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

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