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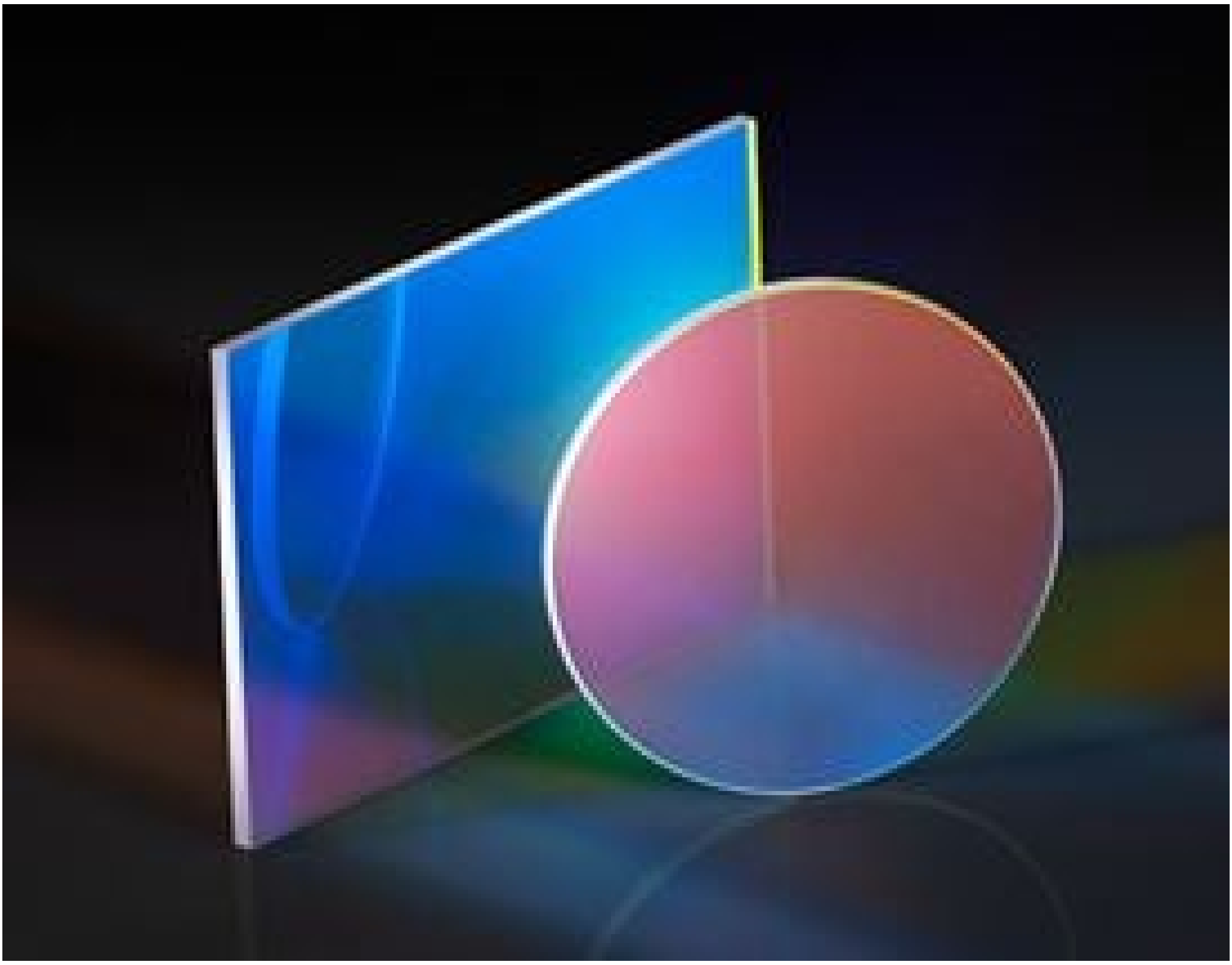
# TECHSPEC® 757nm, 12.5 x 17.6mm, Dichroic Filter



TECHSPEC® Fluorescence Dichroic Filters

Stock **#87-058** **6 In Stock**

- 1 + **€215**.00

**ADD TO CART**

| Volume Pricing | |
|---|---|
| Qty 1-5 | **€215,00** each |
| Qty 6-25 | **€183,00** each |
| Qty 26-49 | **€170,00** each |
| Need More? | Request Quote |

Prices shown are exclusive of VAT/local taxes

Product Downloads

## General

**Type:**

Dichroic Filter

## Physical & Mechanical Properties

**Dimensions (mm):**

12.5 x 17.6

**Length (mm):**

17.60

**Thickness (mm):**
1.05 ±0.1

**Width (mm):**
12.50

**Dimensional Tolerance (mm):**
+0.0/-0.2

**Physical Durability:**
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

**Angle of Incidence (°):**
45

**Cut-On Wavelength (nm):**
757.00 ±6.0

**Substrate:**
Fused Silica (Corning 7980)

**Coating:**
Hard Coated

**Reflection (%):**
98.00 (average)

**Reflection Wavelength (nm):**
450 - 744

**Surface Quality:**
60-40

**Transmission (%):**
90.00 (average)

**Transmission Wavelength (nm):**
770 - 1100

**Transmitted Wavefront, RMS:**
1λ

**Wavelength Range (nm):**
450 - 1100

## 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.

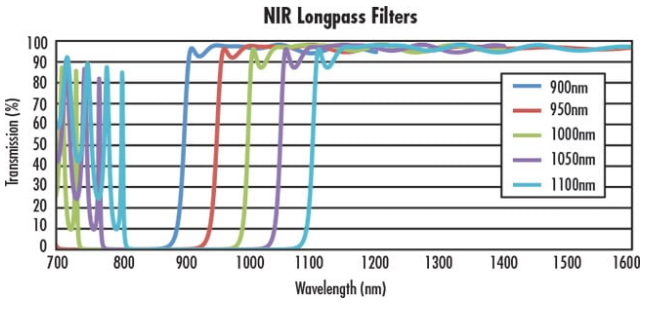
# Product Details

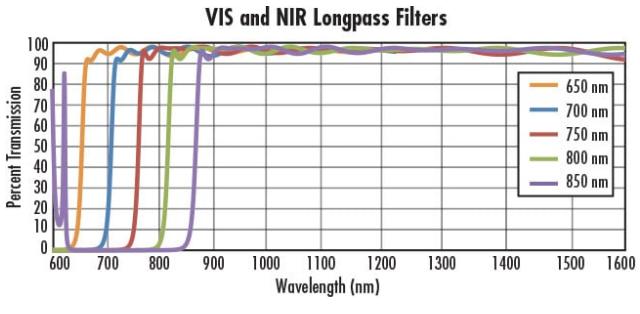
- Ideal for Fluorescence or Multispectral Imaging
- Sharp Transition from Reflection to Transmission
- Extended Reflection and Transmission Bands
- High Performance Fluorescence Dichroic Filters are also available

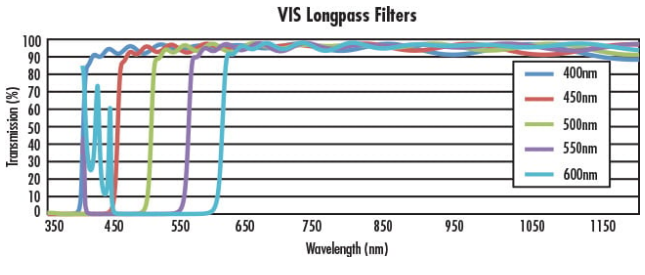
TECHSPEC® Fluorescence Dichroic Filters (sometimes referred to as dichroic plate beamsplitters or dichroic mirrors) feature broad, flat transmission and reflection ranges with an ultra-steep slope between them. These attributes make them ideal for fluorescence imaging or spectral sorting applications, 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.

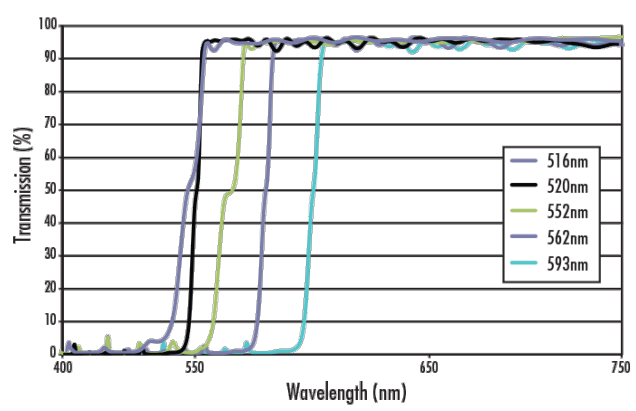
**Note:** The chevron on the edge of the filter points towards surface S1 with the primary filter coating on which the light should be incident.

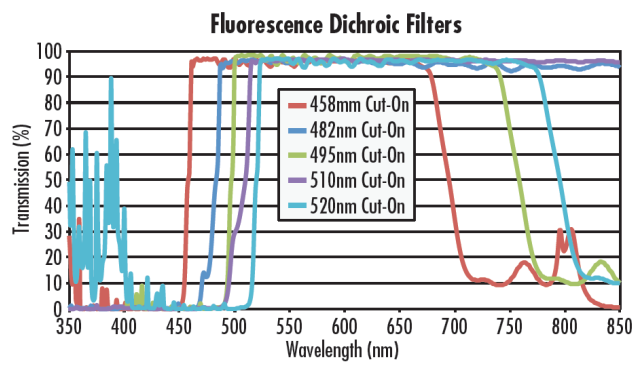
# Technical Information

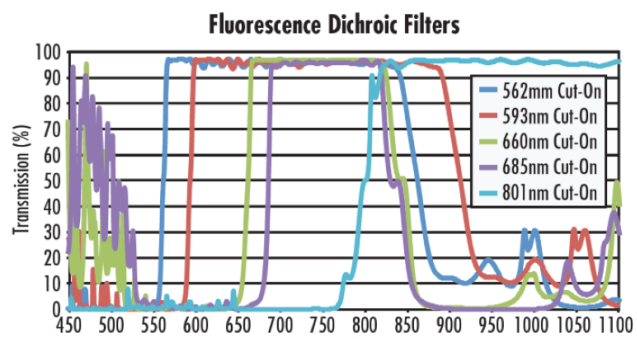



| Filter Type | Transmitted Wavefront (RMS) | Surface Quality | Surface Flatness (P-V) | R(avg) | T(avg) |
|---|---|---|---|---|---|
| HP Dichroic | λ/10 | 40-20 | λ/2 | >98% | >90% |
| Fluorescence Dichroics | 1λ | 60-40 | - | >98% | >90% |
| Dichroic Longpass | λ/4 | 40-20 | - | >97% | >85% |

## Compatible Mounts

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