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**TECHSPEC® 464, 542 & 639nm, 25mm Dia., Tri-Band Filter**



Multi-Band Fluorescence Bandpass Filters

Stock **#87-246** **5 In Stock**

⊖ 1 ⊕ €500<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-9	€500,00 each
Qty 10-25	€420,00 each
Qty 26-49	€395,00 each
Need More?	<a href="#">Request Quote</a>

**!** Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Type:  
Bandpass Filter

Compatible Fluorophore:  
CFP/YFP/Texas Red Emission

**Physical & Mechanical Properties**

Diameter (mm):

25.00 +0.0/-0.1

21.34 **Clear Aperture CA (mm):**

**Construction:**  
Mounted in Black Anodized Ring

**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

2.00 ±0.25 **Substrate Thickness (mm):**

## Optical Properties

0 **Angle of Incidence (°):**

23 @ 464nm  
27 @ 542nm  
42 @ 639nm **Bandwidth (nm):**

≥6.0 **Optical Density OD (Average):**

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

Hard Coated **Coating:**

60-40 **Surface Quality:**

>90 **Transmission (%):**

250 - 1100 **Blocking Wavelength Range (nm):**

464, 542, 639 **Multi-Band Center Wavelengths (nm):**

## Threading & Mounting

3.5 ±0.1 **Mount Thickness (mm):**

## Environmental & Durability Factors

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

## Regulatory Compliance

**RoHS 2015:**  
**Compliant**

**Certificate of Conformance:**  
**View**

**Reach 247:**  
**Compliant**

## 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](#).

## Product Details

- Multiple Pass Bands on a Single Filter
- High Peak Transmission, Excellent Blocking
- Ideal for Simultaneous Viewing of Multiple Fluorophores
- For Optimal Performance Pair with [Multi-Edge Fluorescence Dichroic Filters](#)

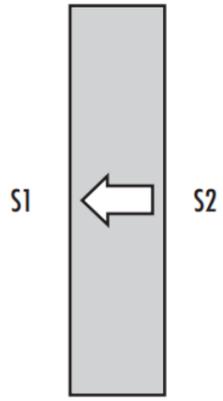
TECHSPEC® Multi-Band Fluorescence Bandpass Filters are ideal for real time live cell analysis and high speed imagery. Each optical filter is hard coated and mounted in a black anodized aluminum housing. Having multiple pass bands on a single optical filter enhances fluorescence imagery and eases setup for a range of [fluorophore applications](#). TECHSPEC® Multi-Band Fluorescence Bandpass Filters feature high average transmission and excellent blocking, yielding maximum brightness and contrast in any application.

These filters are available as dual-band bandpass filters, triple-band bandpass filters, and quad-band bandpass filters. These filters are also referred to as dual-band filters, tri-band filters, or quad-band filters, respectively. They are ideal components in spectroscopy and clinical chemistry applications, as well as biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms.

Dual-band bandpass filters feature four designs with passband wavelengths from 433 and 530nm to 577 and 690nm. Triple-band bandpass filters feature three designs with passband wavelengths from 432, 517, and 615nm to 464, 542, and 639nm. Quad-band bandpass filters feature a design with passband wavelengths of 440, 521, 607, and 700nm.

**Note:** All filters feature wide out of band blocking from 250 - 1100nm with deep OD 6.0 blocking at critical discrimination wavelengths. For complete transmission and blocking profiles, download the individual curve for each filter.

## Technical Information



All mounted TECHSPEC® Optical Filters have an arrow on the side of the mount that points to the filter-coated surface for quick reference. Filter oriented such that arrow points to filter coated surface S1. Anti-reflective (AR) coating is applied to S2.

## Compatible Mounts

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