

**TECHSPEC® 457, 530 & 628nm, 12.5mm Dia., Tri-Band Filter**

Multi-Band Fluorescence Bandpass Filters

Stock #87-237 **1 In Stock**[-](#) [1](#) [+](#) **A\$593<sup>.60</sup>****ADD TO CART**

Volume Pricing	
Qty 1-9	A\$593.60 each
Qty 10-25	A\$499.20 each
Qty 26-49	A\$468.80 each
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## Product Downloads

**SPECIFICATIONS****General****Type:**

Bandpass Filter

**Compatible Fluorophore:**

## Physical & Mechanical Properties

**Diameter (mm):** 12.50  $\pm$ 0.0/-0.1

**Clear Aperture CA (mm):** 8.81

**Construction:** Mounted in Black Anodized Ring

**Physical Durability:**  
Adhesion per ML-PRF-13830B, Section C.4.5.12  
Moderate abrasion per ML-PRF-13830B, Section C.4.5.11  
Cleaning per MIL-C-48497A Section 4.5.4.2

**Substrate Thickness (mm):** 2.00  $\pm$ 0.25

## Optical Properties

**Angle of Incidence (°):** 0

**Bandwidth (nm):**  
22 @ 457nm  
20 @ 530nm  
28 @ 628nm

**Optical Density OD (Average):**  $\geq$ 6.0

**Substrate:**   
[Fused Silica](#) (Corning 7980)

**Coating:** Hard Coated

**Surface Quality:** 60-40

**Transmission (%):** >90

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

**Multi-Band Center Wavelengths (nm):**  
457, 530, 628

## Threading & Mounting

**Mount Thickness (mm):** 3.5  $\pm$ 0.1

## 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](#)

## 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](#)

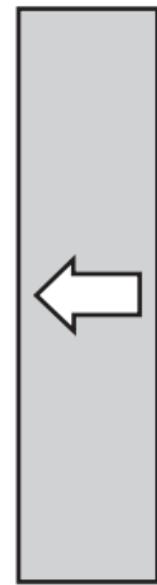
TECHSPEC® Multi-Band Fluorescence Bandpass Filters are ideal for real time live cell analysis and high speed imagery. Each optical filter is hard coated and mounted in a black anodized aluminum housing. Having multiple pass bands on a single optical filter enhances fluorescence imagery and eases setup 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.

## 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](#).

## COMPATIBLE MOUNTS