

# TECHSPEC® 464, 542 & 639nm, 50mm Dia., Tri-Band Filter



Multi-Band Fluorescence Bandpass Filters

Stock #87-254 10 TO 12 DAYS

- 1 + ₹95,004

**ADD TO CART**

Qty 1-9

₹95,004

Qty 10+

₹78,996

Volume Pricing

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## SPECIFICATIONS

### General

Type:  
Bandpass Filter

Compatible Fluorophore:

## Physical & Mechanical Properties

**Diameter (mm):**  
50.00 +0.0/-0.1

**Clear Aperture CA (mm):**  
45.34

**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

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

## Optical Properties

**Angle of Incidence (°):**  
0

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

**Optical Density OD (Average):**  
≥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):**  
464, 542, 639

## Threading & Mounting

**Mount Thickness (mm):**  
3.5 ±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 241:**  
[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](#)

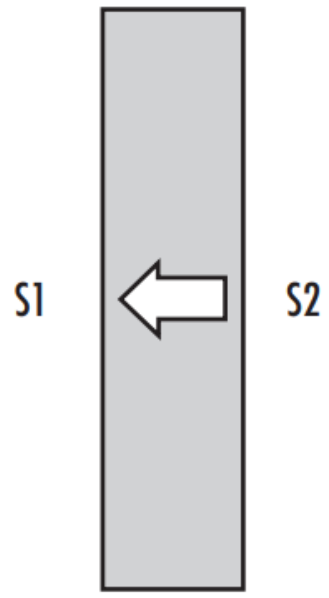
TECHSPEC® Multi-Band Fluorescence Bandpass Filters are ideal for real time live cell analysis and high speed imagery. Each optical filter is hard coated and mounted in a black anodized aluminum housing. Having multiple pass bands on a single optical filter enhances fluorescence imagery and eases setup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

## COMPATIBLE MOUNTS

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