

TECHSPEC®

433 & 530nm, 50mm Dia., Dual-Band Filter



Multi-Band Fluorescence Bandpass Filters

Stock **#87-248** **5 In Stock**

-

1

+

€1.068<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | €1.068,00 each                |
| Qty 10-25      | €897,00 each                  |
| Qty 26-49      | €843,00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

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

Product Downloads

General

Type:  
Bandpass Filter

Compatible Fluorophore:  
DAPI & FITC Emission

Physical & Mechanical Properties

Diameter (mm):

|                                                                                                                                                      |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 50.00 +0.0/-0.1                                                                                                                                      |                         |
| 45.34                                                                                                                                                | Clear Aperture CA (mm): |
|                                                                                                                                                      |                         |
| Mounted in Black Anodized Ring                                                                                                                       | Construction:           |
|                                                                                                                                                      |                         |
| Adhesion per MIL-PRF-13830B, Section C.4.5.12<br>Moderate abrasion per MIL-PRF-13830B, Section C.4.5.11<br>Cleaning per MIL-C-48497A Section 4.5.4.2 | Physical Durability:    |

|            |                           |
|------------|---------------------------|
| 2.00 ±0.25 | Substrate Thickness (mm): |
|------------|---------------------------|

Optical Properties

|                        |                         |
|------------------------|-------------------------|
| 0                      | Angle of Incidence (°): |
|                        |                         |
| 38 @433nm<br>40 @530nm | Bandwidth (nm):         |

|      |                               |
|------|-------------------------------|
| ≥6.0 | Optical Density OD (Average): |
|------|-------------------------------|

|                             |              |
|-----------------------------|--------------|
| Fused Silica (Corning 7980) | Substrate: □ |
|-----------------------------|--------------|

|             |          |
|-------------|----------|
| Hard Coated | Coating: |
|-------------|----------|

|       |                  |
|-------|------------------|
| 60-40 | Surface Quality: |
|-------|------------------|

|     |                   |
|-----|-------------------|
| >90 | Transmission (%): |
|-----|-------------------|

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

|          |                                     |
|----------|-------------------------------------|
| 433, 530 | Multi-Band Center Wavelengths (nm): |
|----------|-------------------------------------|

Threading & Mounting

|          |                       |
|----------|-----------------------|
| 3.5 ±0.1 | Mount Thickness (mm): |
|----------|-----------------------|

Environmental & Durability Factors

|                                                                                                   |                           |
|---------------------------------------------------------------------------------------------------|---------------------------|
| Humidity per MIL-STD-810H, Section 507.6<br>Temperature per MIL-STD-810H, Section 501.7 and 502.7 | Environmental Durability: |
|---------------------------------------------------------------------------------------------------|---------------------------|

Regulatory Compliance

|           |                             |
|-----------|-----------------------------|
| Compliant | RoHS 2015:                  |
|           |                             |
| View      | Certificate of Conformance: |
|           |                             |
| Compliant | Reach 247:                  |

## 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

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