

TECHSPEC<sup>®</sup> 440, 521, 607 & 700nm, 50mm Dia., Quad-Band Filter



Multi-Band Fluorescence Bandpass Filters

Stock **#87-255** **1 In Stock**

-

1

+

S\$1,901<sup>23</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | <b>S\$1,901.23</b> each       |
| Qty 10-25      | <b>S\$1,584.60</b> each       |
| Qty 26-49      | <b>S\$1,489.02</b> each       |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

SPECIFICATIONS

General

Bandpass Filter

Type:

Compatible Fluorophore:

|                                                                                                                                                                              |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| DAPI/FITC/TRITC/CY5 Emission                                                                                                                                                 |                                     |
| Physical & Mechanical Properties                                                                                                                                             |                                     |
| 50.00 +0.0/-0.1                                                                                                                                                              | Diameter (mm):                      |
| 45.34                                                                                                                                                                        | Clear Aperture CA (mm):             |
| Construction:                                                                                                                                                                |                                     |
| Mounted in Black Anodized Ring                                                                                                                                               |                                     |
| Physical Durability:<br>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 |                                     |
| 2.00 ±0.25                                                                                                                                                                   | Substrate Thickness (mm):           |
| Optical Properties                                                                                                                                                           |                                     |
| 0                                                                                                                                                                            | Angle of Incidence (°):             |
| 40 @ 440nm<br>21 @ 521nm<br>34 @ 607nm<br>45 @ 700nm                                                                                                                         | Bandwidth (nm):                     |
| ≥6.0                                                                                                                                                                         | Optical Density OD (Average):       |
| Fused Silica (Corning 7980)                                                                                                                                                  | Substrate: <input type="checkbox"/> |
| Hard Coated                                                                                                                                                                  | Coating:                            |
| 60-40                                                                                                                                                                        | Surface Quality:                    |
| >90                                                                                                                                                                          | Transmission (%):                   |
| 250 - 1100                                                                                                                                                                   | Blocking Wavelength Range (nm):     |
| 440, 521, 607, 700                                                                                                                                                           | Multi-Band Center Wavelengths (nm): |
| Threading & Mounting                                                                                                                                                         |                                     |
| 3.5 ±0.1                                                                                                                                                                     | Mount Thickness (mm):               |
| Environmental & Durability Factors                                                                                                                                           |                                     |
| Environmental Durability:<br>Humidity per MIL-STD-810H, Section 507.6<br>Temperature per MIL-STD-810H, Section 501.7 and 502.7                                               |                                     |
| 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](#)

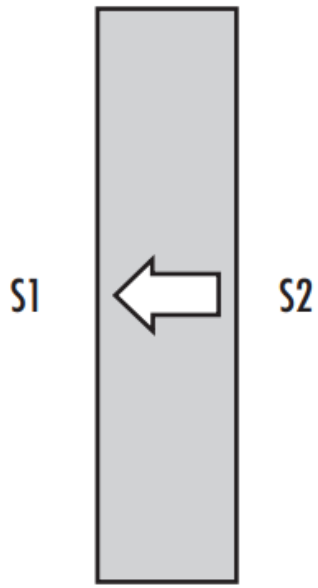
TECHSPEC® Multi-Band Fluorescence Bandpass Filters are ideal for real time live cell analysis and high speed imagery. Each optical filter is hard coated and mounted in a black anodized aluminum housing. Having multiple pass bands on a single optical filter enhances fluorescence imagery and eases setup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