

TECHSPEC®

512 & 630nm, 12.5mm Dia., Dual-Band Filter



Multi-Band Fluorescence Bandpass Filters

Stock **#87-233** **1 In Stock**

-

1

+

£279<sup>20</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | £279.20 each                  |
| Qty 10-25      | £234.40 each                  |
| Qty 26-49      | £220.00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

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

Product Downloads

SPECIFICATIONS

General

Bandpass Filter

Type:

|                                                                                               |                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compatible Fluorophore:<br>GFP & TRITC Emission                                               |                                                                                                                                                      |
| Physical & Mechanical Properties                                                              |                                                                                                                                                      |
| Diameter (mm):                                                                                | 12.50 +0.0/-0.1                                                                                                                                      |
| Clear Aperture CA (mm):                                                                       | 8.81                                                                                                                                                 |
| Construction:                                                                                 | Mounted in Black Anodized Ring                                                                                                                       |
| Physical Durability:                                                                          | 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 |
| Substrate Thickness (mm):                                                                     | 2.00 ±0.25                                                                                                                                           |
| Optical Properties                                                                            |                                                                                                                                                      |
| Angle of Incidence (°):                                                                       | 0                                                                                                                                                    |
| Bandwidth (nm):                                                                               | 23 @ 512nm<br>91 @ 630nm                                                                                                                             |
| 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):                                                           | 512, 630                                                                                                                                             |
| Threading & Mounting                                                                          |                                                                                                                                                      |
| Mount Thickness (mm):                                                                         | 3.5 ±0.1                                                                                                                                             |
| Environmental & Durability Factors                                                            |                                                                                                                                                      |
| Environmental Durability:                                                                     | Humidity per MIL-STD-810H, Section 507.6<br>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