

TECHSPEC[®] 512 & 630nm, 50mm Dia., Dual-Band Filter



Multi-Band Fluorescence Bandpass Filters

Stock **#87-249** **1 In Stock**

-

1

+

₹78,473

ADD TO CART

Volume Pricing	
Qty 1-9	₹78,473 each
Qty 10-25	₹65,238 each
Qty 26-49	₹61,268 each
Need More?	Request Quote

Product Downloads

General	
Type:	Bandpass Filter
Compatible Fluorophore:	GFP & TRITC 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 ML-PRF-13830B, Section C.4.5.12 Moderate abrasion per ML-PRF-13830B, Section C.4.5.11 Cleaning per ML-C-48497A Section 4.5.4.2	Physical Durability:

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

Optical Properties

0	Angle of Incidence (°):
23 @ 512nm 91 @ 630nm	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):

512, 630	Multi-Band Center Wavelengths (nm):
----------	-------------------------------------

Threading & Mounting

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

Environmental & Durability Factors

Humidity per ML-STD-810H, Section 507.6 Temperature per ML-STD-810H, Section 501.7 and 502.7	Environmental Durability:
---	---------------------------

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:
United States	Country of Origin:
Edmund Optics India Private Limited	Imported By:

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](#).

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