

TECHSPEC® 464, 542 & 639nm, 12.5mm Dia., Tri-Band Filter



Multi-Band Fluorescence Bandpass Filters

Stock #87-238 10 TO 12 DAYS

- 1 + ₹29,580

ADD TO CART

Qty 1-9
₹29,580

Qty 10+
₹24,621

Volume Pricing
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SPECIFICATIONS

General

Type:
Bandpass Filter

Compatible Fluorophore:

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
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](#)

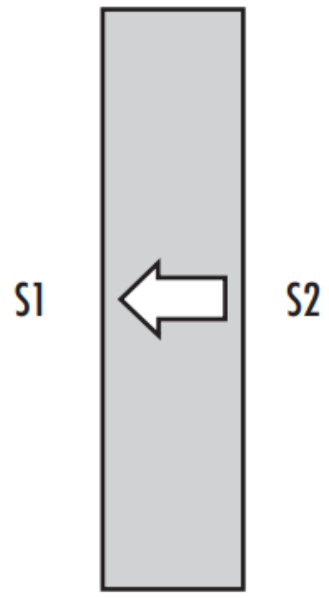
TECHSPEC® Multi-Band Fluorescence Bandpass Filters are ideal for real time live cell analysis and high speed imagery. Each optical filter is hard coated and mounted in a black anodized aluminum housing. Having multiple pass bands on a single optical filter enhances fluorescence imagery and eases setup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