

TECHSPEC<sup>®</sup>

# 448nm CWL, 12.5mm Dia, 20nm Bandwidth, Unmounted OD 6 Fluorescence Bandpass Filter



Stock #18-369 10 In Stock

[Additional Bandwidths](#)

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+

\$188<sup>18</sup>

~~\$376.36~~

ADD TO CART

| Volume Pricing |                                          |
|----------------|------------------------------------------|
| Qty 1-5        | <del>\$376.36</del> <b>\$188.18</b> each |
| Qty 6-25       | <del>\$346.62</del> <b>\$158.31</b> each |
| Qty 26-49      | <del>\$304.69</del> <b>\$150.85</b> each |
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Product Downloads

## SPECIFICATIONS

General

|                                                                                                                                                                              |                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Bandpass Filter                                                                                                                                                              | Type:                                |
| 442nm Laser Excitation                                                                                                                                                       | Compatible Fluorophore:              |
| Physical & Mechanical Properties                                                                                                                                             |                                      |
| 12.50 ±0.1                                                                                                                                                                   | Diameter (mm):                       |
| 11.25                                                                                                                                                                        | Clear Aperture CA (mm):              |
| 2.00 ±0.1                                                                                                                                                                    | Thickness (mm):                      |
| Unmounted                                                                                                                                                                    | Construction:                        |
| 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 |                                      |
| Protective as needed                                                                                                                                                         | Bevel:                               |
| Optical Properties                                                                                                                                                           |                                      |
| 0 ±5                                                                                                                                                                         | Angle of Incidence (°):              |
| 20.00                                                                                                                                                                        | Bandwidth (nm):                      |
| 250 - 423 & 471 - 950                                                                                                                                                        | OD 6 Blocking Wavelength Range (nm): |
| ≥6.0                                                                                                                                                                         | Optical Density OD (Average):        |
| >93 over Bandwidth                                                                                                                                                           | Average Transmission (%):            |
| 448.00                                                                                                                                                                       | Center Wavelength CWL (nm):          |
| 25.00                                                                                                                                                                        | Full Width-Half Max FWHM (nm):       |
| Fused Silica (Corning 7980)                                                                                                                                                  | Substrate: <input type="checkbox"/>  |
| 93                                                                                                                                                                           | Minimum Transmission (%):            |
| Hard Coated                                                                                                                                                                  | Coating:                             |
| 60-40                                                                                                                                                                        | Surface Quality:                     |
| 250 - 1100                                                                                                                                                                   | Blocking Wavelength Range (nm):      |
| λ/4 (prior to coating)                                                                                                                                                       | Transmitted Wavefront, RMS:          |
| 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

• Designed for Use With Common Fluorophores

• Excitation and Emission Filters Available

• High Transmission with Deep >OD 6.0 Blocking

• Mounted [Fluorescence Filters](#) and [Mounted Fluorescence Filter Sets](#) Also Available

TECHSPEC® Unmounted Fluorescence Bandpass Filters are designed with center wavelengths and bandwidths that match the excitation and emission wavelengths of common fluorophores. These filters feature high transmission up to >93% in their passband with deep >OD 6.0 blocking outside of their passband, resulting in high contrast images when used in fluorescence imaging systems. The low transmitted wavefront error of these filters further enhances image quality by minimizing image distortion. TECHSPEC Unmounted Fluorescence Bandpass Filters are available with a 12.5 or 25mm diameter and are ideal for integration into life science and biotech instrumentation including polymerase chain reaction (PCR) testing platforms, DNA sequencers, fluorescence detectors, flow cytometers, and fluorescence imaging systems.

# 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](#).

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