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TECHSPEC®

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



Stock #18-369 12 In Stock

[Additional Bandwidths](#)

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1

+

₹19,618

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Volume Pricing	
Qty 1-5	₹19,618 each
Qty 6-25	₹16,504 each
Qty 26-49	₹15,726 each
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Product Downloads

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: 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	
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: ☐
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: Humidity per ML-STD-810H, Section 507.6 Temperature per ML-STD-810H, Section 501.7 and 502.7	
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:
United States	Country of Origin:
Edmund Optics India Private Limited	Imported By:

Need different specs or modifications?

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

- 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.